ORDER NO. MD0512447C3

Service Manual

CD Stereo System

SA-AK340GCP

Colour

(S)... Silver Type

Notes: This model's CD mechanism changer unit is CRS1. Please refer to the original Service Manual (Order No. MD0509368C0) for this mechanism.

SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS output power	
THD 10%, both channels driven	
1 kHz	
(Low channel)	105 W per channel (3)
10 kHz	
(High channel)	105 W per channel (3)
Total Bi-Amp power	420 W

■ FM/AM TUNER, TERMINALS SECTION

Preset station	FM 15 stations AM 15 stations
Frequency Modulation (FM)	
Frequency range	87.50 to 108.00 MHz (50 kHz steps)
Sensitivity	4.0 V (IHF)
S/N 26dB	2.2 V
Antenna terminal(s)	75 (unbalanced)
Amplitude Modulation (AM)	
Frequency range	522 to 1629 kHz (9 kHz step) 520 to 1630 kHz (10 kHz step)
Sensitivity	
S/N 20dB (at 999 kHz)	560 V/m
Music Port input jack	
Terminal	Stereo, 3.5 mm jack
Sensitivity	100 mV, 13 k
Phone jack	
Terminal	Stereo, 3.5 mm jack
Mic jack	
Terminal	Mono, 3.5 mm jack
Sensitivity	0.7 mV, 680

CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s
Overall frequency response (+3, -6 dB) at DECK OUT	
NORMAL	35 Hz to 14 kHz
S/N ratio	50 dB (A weighted)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

DISC SECTION

Disc played [8 cm or 12 cm]	
(1) CD-Audio (CD-DA)	
(2) CD-R/RW (CD-DA, MP3, WMA formatted disc)	
(3) MP3/WMA	
Bit rate	

MP3, WMA	32 kbps to 320 kbps
Sampling frequency	
MP3/WMA	32 kHz, 44.1 kHz, 48 kHz
CD-DA	44.1 kHz
Decoding	16 bit linear
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)
Pick up	
Wavelength	780 nm
Beam Source	Semiconductor laser
Audio output (Disc)	
Number of channels	2 (Stereo) (FL,FR)
■ GENERAL	
Power supply	
	AC 110 to 127/220 to 240 V, 50/60Hz
Power consumption	120 W
Power consumption in standby mode	0.6 W
Dimensions (W x H x D)	250 x 330 x 343 mm
Mass	6.9 kg
Operating temperature range	+5 to +35°C
Operating humidity range	5 to 90% RH (no condensation)
■ SYSTEM	
SC-AK340 (GCP-S)	Music center: SA-AK340 (GCP-S)
	Speaker: SB-AK340 (GC-SJ)

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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1. Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, ensure that all the protective devices such as

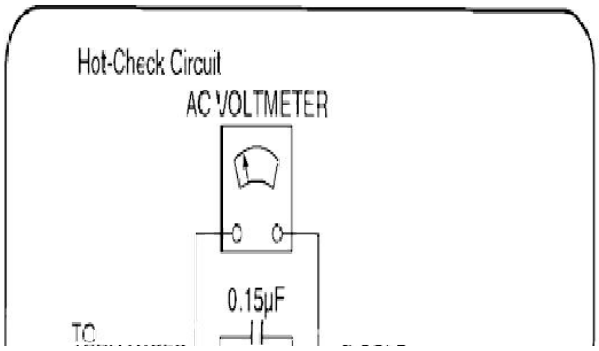
insulation barriers and insulation papers shields are properly installed.

3. After servicing, check for leakage current checks to prevent from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Using an ohmmeter measure the resistance value, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be .

Fig. 1



1.1.2. Leakage Current Hot Check (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k , 10 watts resistor, in parallel with a 0.15 F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above

measurements.

6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. Should the measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

1.2. Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.
Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.)
Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

1.3. Before repair and adjustment

Disconnect AC power, discharge Power Capacitors C5101, C5104, C5171, C5172, C5920, C5940 and C5950 through a 10 Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 127 V, at 60 Hz is ~500mA and AC 230-240 V, at 50 Hz is ~350mA in NO SIGNAL mode (volume min at CD mode).

1.4. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
"shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note :
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The

following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

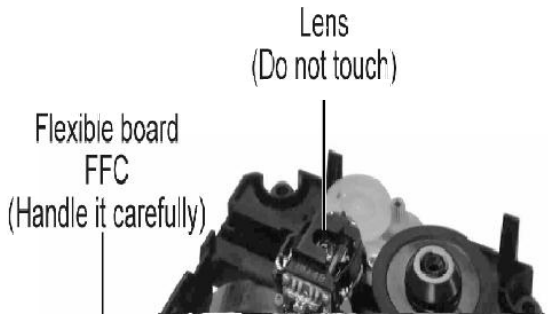
1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**
   Caution
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

3. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by the static electricity of clothes or our human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Way of handling the traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FFC board).**
3. **Do not to apply excessive stress to the flexible board (FFC board). When removing or connecting the short pin, finish the job in as short time as possible.**
4. **Do not turn the variable resistor for laser power adjustment. (It is pre-adjusted during production time)**



Grounding for electrostatic breakdown prevention

1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity from your body.

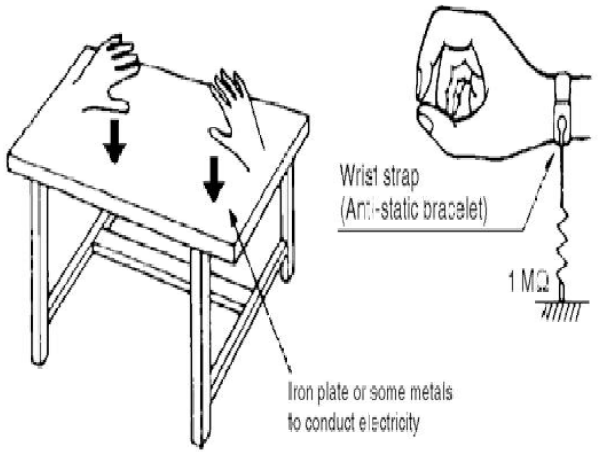
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when replacing the Traverse Deck

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.



4. Precaution of laser diode

CAUTION:

This unit utilizes a class 1 laser diode in the optical pickup unit .
Invisible laser radiation is emitted from the optical pickup lens.
Wavelength: 780nm
When the unit is turned on:

1. Do not look directly into the optical pickup lens.
2. Do not use optical instruments to look at the optical pickup lens.
3. Do not adjust the preset variable resistor on the optical pickup lens.
4. Do not disassemble the optical optical pickup unit.
5. If the optical pickup is replaced, use the manufacturer's specified replacement pickup only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ Use of caution label

CLASS 1
LASER PRODUCT
CAUTION - INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL - USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL - USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

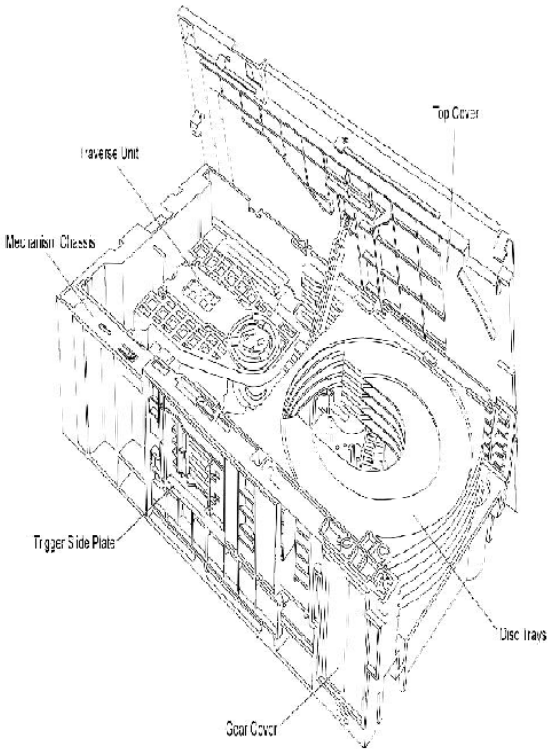
- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).

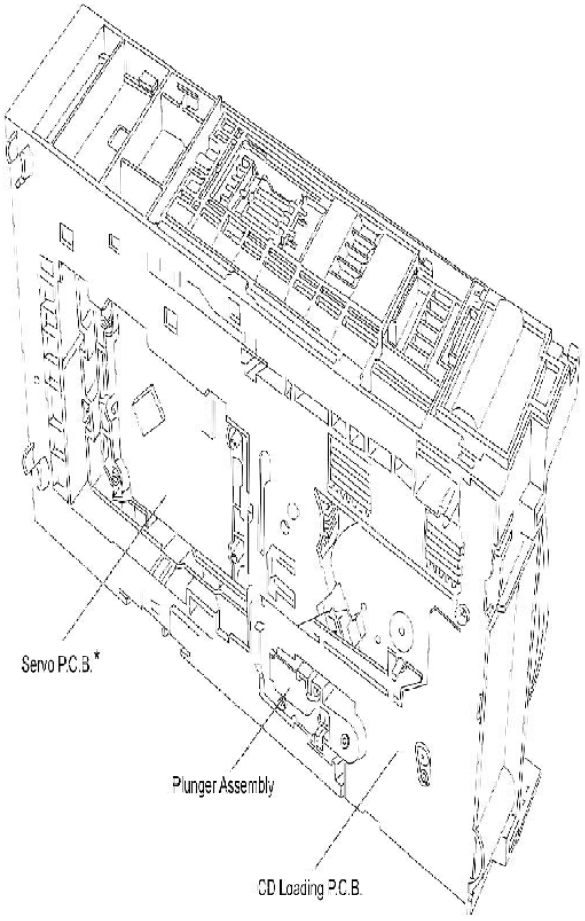
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. New Features

6.1. CRS1 Mechanism Overview





* Illustration for CD Servo P.C.B. (Applied models: SA-AK240/340/640 series)

6.1.1. General Feature

- This is a five disc changer mechanism for CD/DVD. The outline figure is shown below.

- The mechanism has "CHANGE WHILE PLAY" function. It open other trays for disc exchanging while one tray is at PLAY position performing recording or reproducing.

- The mechanism can quickly change all trays with "CHANGE ALL" function. All trays can be move to OPEN position with one operation.
- There is no sensor to indicate presence of disc on any tray.

6.1.2. Hardware composition

- Below is the hardware components of the mechanism

Name	Function
Open Switch (OPEN-SW)	The switch is used to detect normal tray opening
	The switch is used for detect tray being manually push/trigger when full open
Home Switch (HOME-SW)	Is used to detect cam gear home position
Close Sensor (CLOSE-SENSOR)	Used for normal single tray closing
	Used to detect cam gear rotate to Play Driving position
Play Switch (PLAY-SW)	Detect TRV clamping complete position
Stocking Switch (STOCK-SW)	Detect tray completely transfer for play position to stocking position
UD Sensor (UD-SENSOR)	Detect TRV vertical movement position
Top Switch (TOP-SW)	Detect a default position of TRV vertical movement position
Driver IC	To drive Motor
Motor	Main driving source for changer
Plunger	Switching the driving source from motor to: 1. Tray open/close 2. Drive tray to play/stock position and TRV vertical movement

6.1.3. Mechanism Operation

- This mechanism has the following state:

1. Driving of a tray to open/close
2. Up/down operation of a traverse performs a state changes of tray. By using the plunger to lift/release of a switching gear, and the cam gear to lift/release the function gear the motor can be link to several gear trains to perform various operations.

- The functions that can be perform in this mechanism are described as below:

Condition	Explanation
Open current playing tray	The state to change current playing disc. All tray will be open at once and current tray at PLAY position will be expose.
Open All	The state where all trays being driven to OPEN position. The disc can be take in or out from tray to tray by close tray one by one from top to bottom.
Stock	The state where the trays are stored in STOCK position
Play	The state where one of the tray 5 trays is being driven to PLAY position and clamped by traverse unit
Play & Open Tray-*	The state where one of the tray is in playing position performing recording or reproducing, other trays can be used (OPEN position) for disc exchanging without stopping the recording or reproducing process.
Change	The state when one of the opened tray being driven from OPEN position to STOCK position and other opened trays remain still at OPEN position.
Close All	The state where all open trays will being driven from OPEN position to STOCI position, one by one from top to bottom

6.1.4. New CD Mechanism (CRS1)

Note:

This service manual does not contain the following information for the mention CD Mechanism drive:

- **Schematic Diagram, Block Diagram and P.C.B. layout of CD Loading P.C.B.**
- **Part List for individual parts of the mechanism.**
- **Exploded View and Parts List for individual parts of the CD Mechanism drive.**

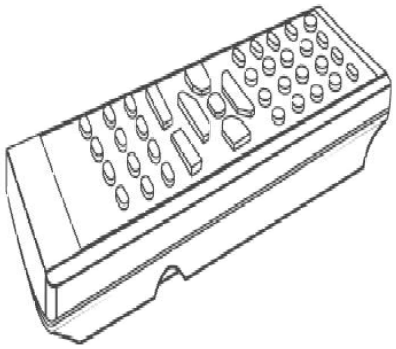
Please refer to the original service manual (Order No. MD0509368C0) for the CD Mechanism Drive CRS1.

6.2. Music Port

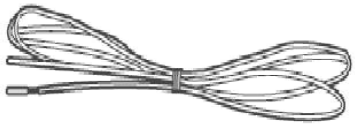
With reference to page 17 of the operating instruction manual.

7. Accessories

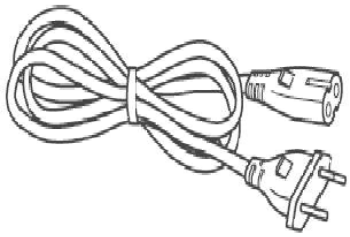
Remote Control



FM Indoor Wire



AC Cord



AM Loop Antenna

AC Plug Adaptor

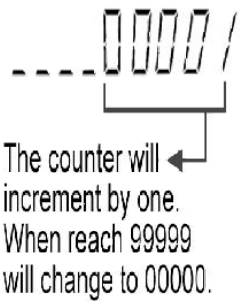
8. Operation Procedures

9. Self diagnosis and special mode setting

This unit is equipped with functions for checking and inspecting namely: Self-Diagnostic and Test Mode.

9.1. Special Mode Table

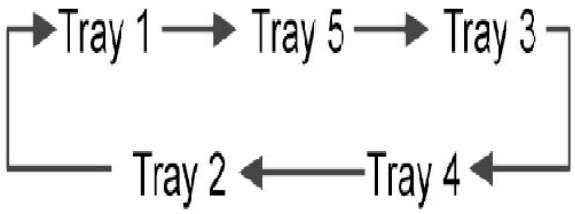
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Self - Diagnostic Mode	To enter into self diagnostic checking for main unit.		1. Select [ ] for TAPE mode (Ensure no tape is inserted). 2. Press and hold [button for 3 seconds follow by [ ]. To exit, press button on main unit or remote control.
CD Test Mode	To enter into checking the reliability of changer unit.		1. Select [ ] for CD mo 2. Press and hold [button for 3 seconds follow by [ ]. To exit, press button on main unit or remote control.
CD Auto Adjustment	To check the CD auto adjustment result for FLOCK, TLOCK and CLVS.		In CD Test Mode: 1. Press [0] button on the remote control. To exit, press button on main unit or remote control.

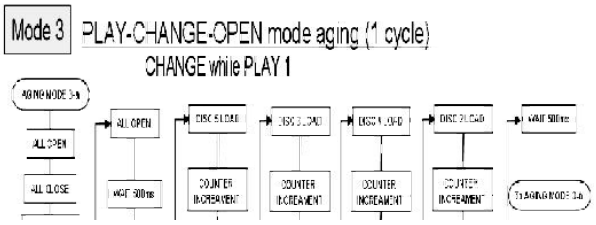
Item		FL Display	Key Operation
Mode Name	Description		Front Key
CD Changer Reliability Test (CRS1)	To determine the reliability of CD Changer Unit. (For more information, refer to section 9.1.1)		In Self-Diagnostic Mode: 1. Select [ ] for CD mo 2. Press [button. To exit, press button on main unit or remote control. (The tray will return to PLAY position and then power off)
Doctor Mode	To enter into Doctor Mode for checking of various items and displaying EEPROM and firmware version.	1. 2. 1. All segments will light up for 1 second. 2. The Check Sum of EEPROM and firmware version will be display. * ROM correction ** Firmware version No:	In any mode: 1. Press [ ] butto on main unit follow by [4] and [7] on remote control. To exit, press [ENTER] button on remote control or button on main unit or remote control.
Cold Start	To activate cold start upon next AC power up.		In doctor mode: 1. Press [4] button on remote control. To exit, press [ENTER] button on remote control or button on main unit or remote control.
Changer Reliability Test	To check the function operation of changer unit. (For more information, refer to 9.1.1)		In doctor mode: 1. Press [DISC] on remote control. To exit, press [ENTER] button on remote control or button on main unit or remote control.

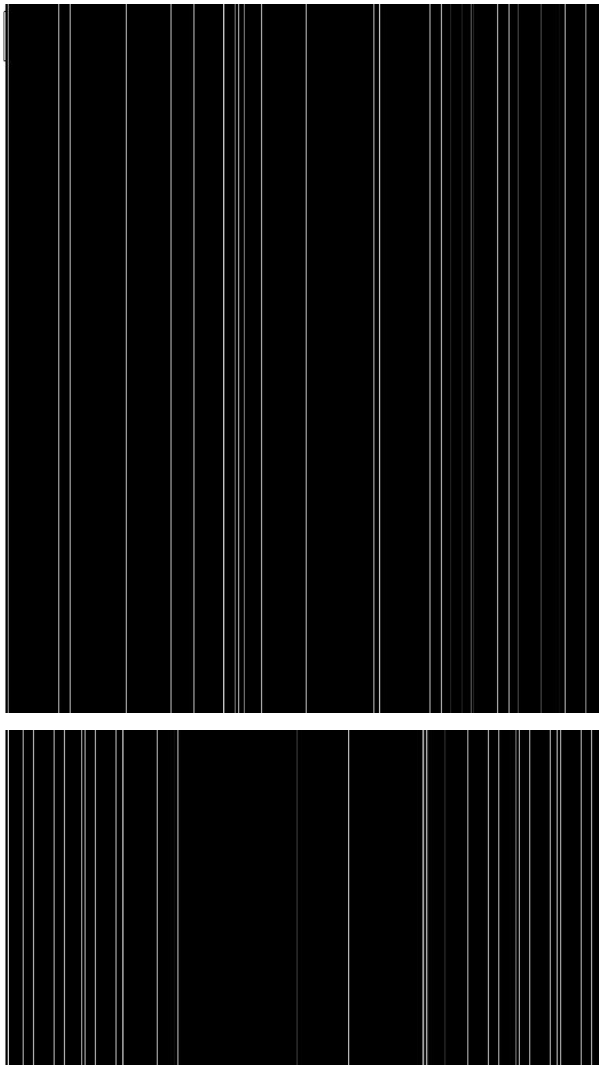
Item		FL Display	Key Operation
Mode Name	Description		Front Key
FL Display Test	To check the FL segments display (All segments will light up and LED will blink at 0.5 second interval)		In doctor mode: 1. Press [PROGRAM] button on remote contro
Tape Eject Test	To check on the tape eject function (For deck 1/2)		In doctor mode: 1. Press [PROGRAM] button on remote contro

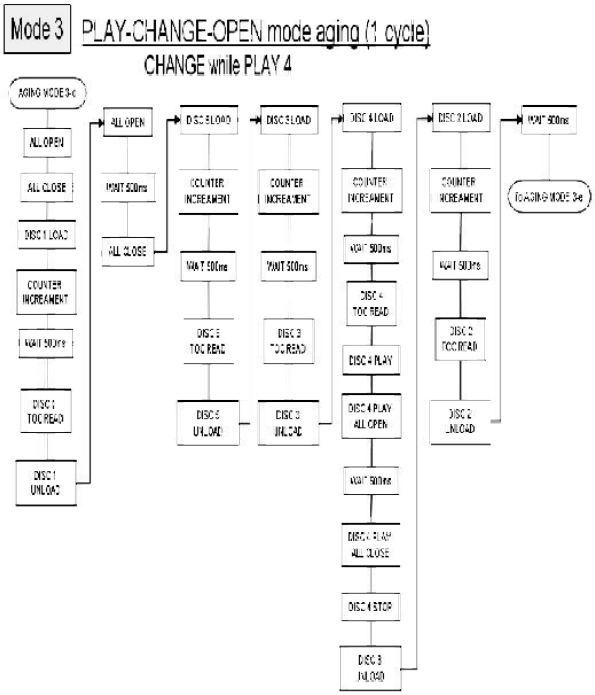
9.1.1. CD changer unit ageing test mode

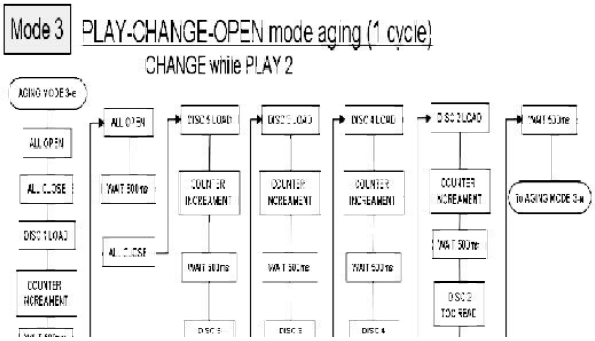
Below is the process flow chart of ageing for the CD changer unit. (CRS1)









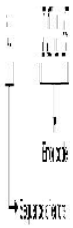


9.2. Error code Table

Self-Diagnosis Function (refer Section 9.1) provides information on any problems occuring for the unit and its respective components by displaying the error codes. These error code such as U, H** and F** are stored in memory and held unless it is cleared.**

The error code is automatically display after entering into self-diagnostic mode.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
H01	Mode SW, plunger and capstan motor abnormal			For deck mechanism unit (I deck 1/2). Press [on main unit for next error.
H02	Rec INH SW abnormal			For deck mechanism unit (I deck 2). Press [on main unit for next error.
H03	HALF SW abnormal			For deck mechanism unit (I deck 1/2). Press [on main unit for next error.
F01 F02	Reel pulse abnormal TPS error		 	For deck mechanism unit (I deck 1/2). Press [on main unit for next error.
F15	RESET SW abnormal	REST SW: ON is not detected within the specified time.		For CD unit (For Traverse). Press [on main unit for next error.
F26	Transmission error between CD Servo LSI IC and microprocessor IC	When set to CD mode, the sense signal does not turn “Low”, a fail safe time after system command transmission is sent.		For CD unit (For Traverse). Press [on main unit for next error.
F61	Power Amp IC output abnormal	Upon power on, PCONT=HIGH, DCDET=L after checking LSI.		For power. Press [on main unit for next error.
IHMS	Cam gear abnormality	Cam gear does not rotate to “HOME” position.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
ICSL	Cam gear/gear units abnormal	Cam gear does not rotate to “PLAY” driving position and hence does not drive playing tray to “STOCK” position.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
ISTK	Drive rack/gear assembly abnormal	The tray drive rack does not move to “STOCK” position. (Tray does not move to “STOCK” position)		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
IPLY	Drive rack/gear assembly abnormal	The tray drive rack does not move to “PLAY” position. (Tray does not move to “PLAY” position)		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
ITOP	UD assembly	UD Rack does not move to front direction. This lead to UD base not raise to top position.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
IUDS	UD assembly	After TOP SW is detected, UD rack does not move into tray 1 position.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
HOME	Cam gear/gear assembly abnormal	Cam gear does not move to “HOME” position under following conditions 1. After tray is load to “PLAY” position. 2. After tray is unload to “STOCK” position.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
LOAD	Tray drive assembly abnormal	Tray unit does not move from “STOCK” to “PLAY” position		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
PDRV	Cam gear/gear assembly abnormal	Cam gear does not move from “HOME” to “PLAY” drive position.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
UDU	UD base asssembly abnormal	UD Base assembly does not move upwards from tray 5 to tray 2		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
UDD	UD base asssembly abnormal	UD Base assembly does not move downwards from tray 1 to tray 5.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
UD1	UD base asssembly abnormal	UD Base assembly does not move to tray 1.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
F1NG	Fail - safe mode. (For open /close tray unit(s))	When the tray open operation is performed, it fails to open. It will automatically close all trays after the time-out by the microprocessor. During this time when it fails, the error code will appear.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F2NG	Fail - safe mode. (For open /close tray unit(s))	When the tray close operation is performed, it fails to close. It will automatically open all trays after the time-out by the microprocessor. During this time when it fails, the error code will appear.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
SRVC_TRV				For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.
RSET	Cam gear jam/ close sensor faulty	During tray re-open, the cam gear will rotate in the opposite direction to reset the cam gearposition. When it fails, the error code will appear.		For CD changer unit (CRS1 Press [SINGLE CHANGE] o main unit for next error.

CRS1 Error Code display

1. The errors that occured in CRS1 Mechanism can be recalled and displayed, in the order of the occurence under self-diagnostic (Refer to Section 9.1 for procedures to enter this mode.

- Only the first 5 errors will be memorized (in backup memory). The subsequence error shall be ignored and not memorize.
For system with EEPROM as memory backup,memory space in EEPROM is neccesary.

2. To display all error code memorized
In CRS1 Self-Diagnostic mode, press [SINGLE CHANGE] to display subsequence error code.
It shall repeat after reaching error no. 5.
e.g.:
[1 _ _ _ _ I H M S] [SINGLE CHANGE]
[2 _ _ _ _ I T O P] [SINGLE CHANGE]
[3 _ _ _ _ H O M E] [SINGLE CHANGE]

[4 _ _ _ _ L O A D] → [SINGLE CHANGE]
[5 _ _ _ _ _ U D D] → [SINGLE CHANGE]

3. To clear the error code memory
   In CRS1 Self-Diagnostic mode, long press [SINGLE CHANGE] key (2s or more)

10. Assembling and Disassembling

10.1. Caution

Special Note:
This model uses a new CD changer unit CRS1. In this following section does not contain the necessary disassembly & assembly information for the CD changer unit (CRS1) except the disasembly & assembly of traverse unit. Kindly refer to the original service manual for the CD changer unit. (Order No. MD0509368C0).

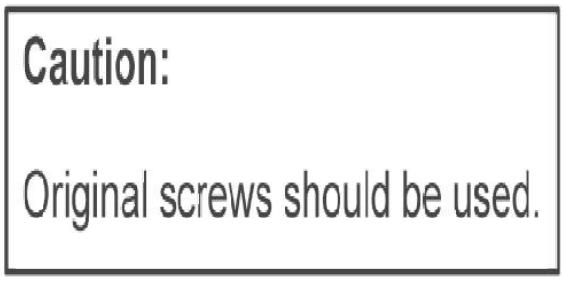
"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. / Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 22), if necessary.

Warning :-

This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

Caution:
After replacing of CD Changer Unit, ageing test is necessary. Please confirm operation for CD Changer Unit.



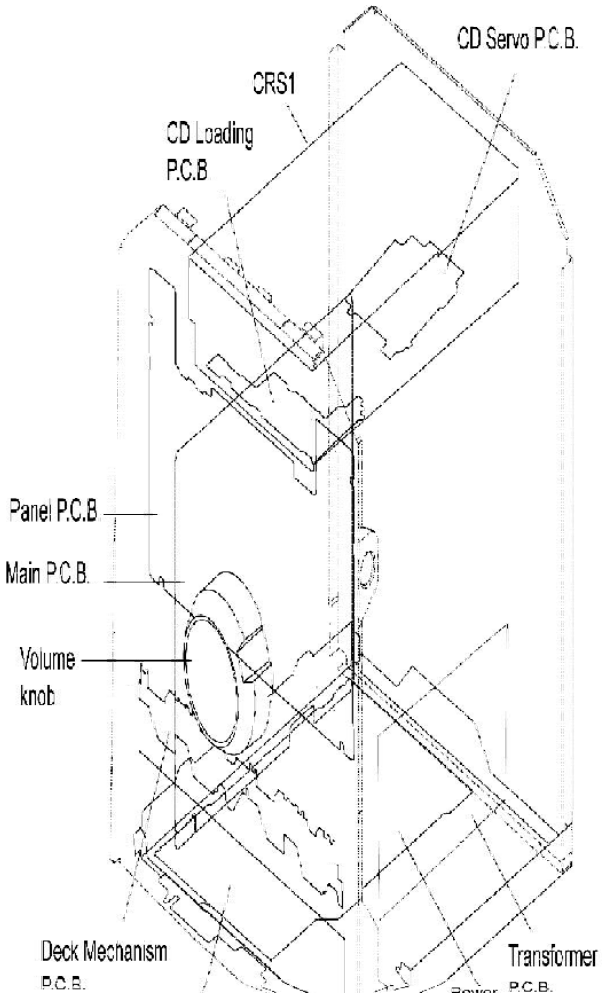
Below is the list of disassembly sections

- **Disassembly of Top Cabinet**
- **Disassembly of Rear Panel**
- **Disassembly of CD Changer Unit**
- **Disassembly of Main P.C.B.**
- **Disassembly of Transformer P.C.B.**
- **Disassembly of Power P.C.B.**
- **Disassembly of Front Panel Unit**
- **Disassembly of Panel P.C.B.**
- **Disassembly of Deck Mechanism Unit**
- **Disassembly for Deck P.C.B.**
- **Disassembly of Traverse Unit**
- **Disassembly of Optical Pickup Unit (CD Mechanism)**
- **Disassembly of Deck Mechanism**
- **Replacement for cassette lid**
- **Rectification for tape jam problem**

10.2. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.

10.3. Main Parts Location



10.4. Disassembly of Top Cabinet

Step 1 Remove 3 screws at each side and 5 screws at rear panel.
Step 2 Lift up both sides of the top cabinet, push the top cabinet towards the rear to remove the top cabinet.

10.5. Disassembly of Rear Panel

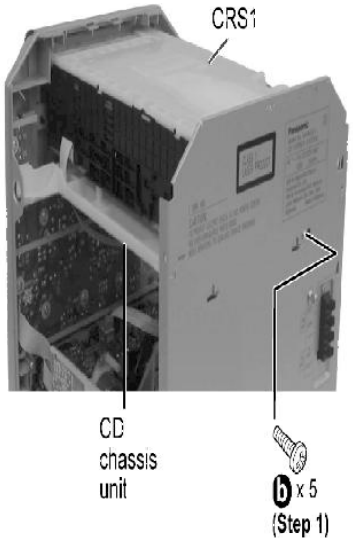
- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

Step 1 Remove 7 screws.
Step 2 Disconnect cable CN2810 (Fan) at Main P.C.B..
Step 3 Remove rear panel.

10.6. Disassembly of CD Changer Unit (CRS1)

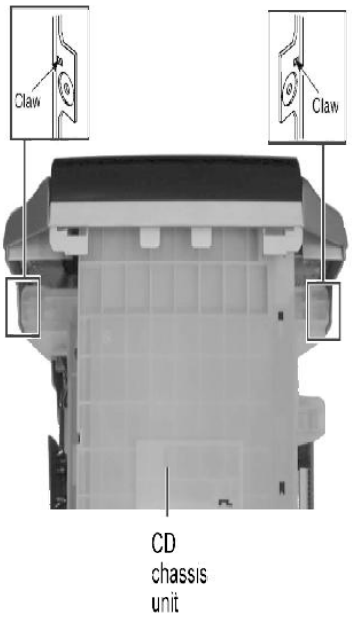
- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

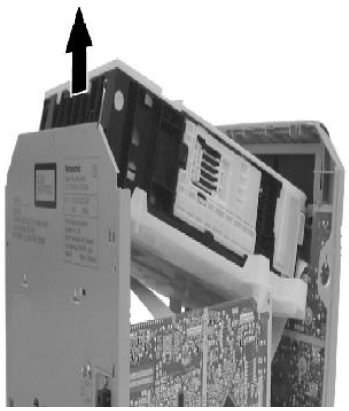
Step 1 Remove 1 screw at rear panel.



Step 2 Detach the FFC cables (CN2801 & CN2805).

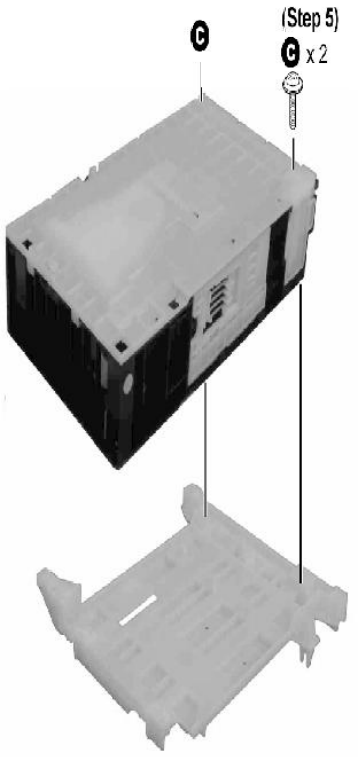
Step 3 Release the claws on both ends.





Step 4 Lift the CD changer unit upwards to remove it.

- Disassembly of Mecha Chassis

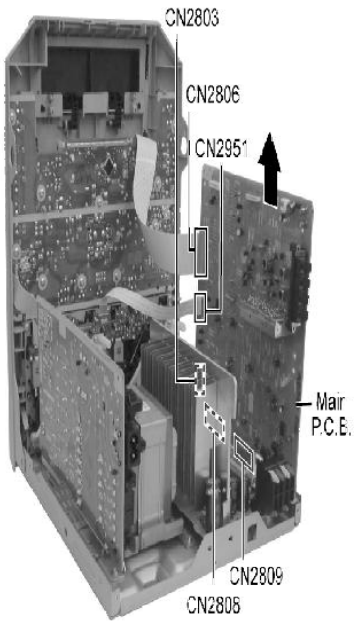


Step 5 Remove 2 screws.
Step 6 Remove the Mecha Chassis.
Note:
For disassembly & assembly of traverse unit, please refer to section 10.15 of this service manual.Please refer to original Service Manual for the Disassembly and Assembly of the CD Changer Unit (CRS1).

10.7. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit
- Follow the (Step 1) - (Step 3) of Item 10.5 - Disassembly of Rear Panel

Step 1 Disconnect FFC cables (CN2803, CN2806 and CN2951).



Step 2 Detach connectors (CN2808 & CN2809).
Step 3 Remove Main P.C.B..

10.8. Disassembly of Transformer P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 3) of Item 10.5 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit

Step 1 Disconnect connectors (CN5950 & CN5951).
Step 2 Remove 3 screws (Mounting screws for transformer to bottom chassis).

Step 3 Push the Transformer P.C.B. sidewards to remove it.

10.9. Disassembly of Power P.C.B.

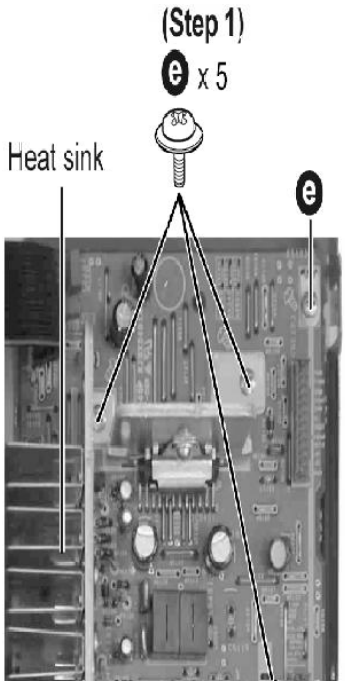
- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit

- Follow the (Step 1) - (Step 3) of Item 10.5 - Disassembly of Rear Panel

- Follow the (Step 1) - (Step 3) of Item 10.7 - Disassembly of Main P.C.B.

Step 1 Remove the 5 screws on Power P.C.B..



Step 2 Detach cable (CN5950) remove the 5 screws on Power P.C.B..

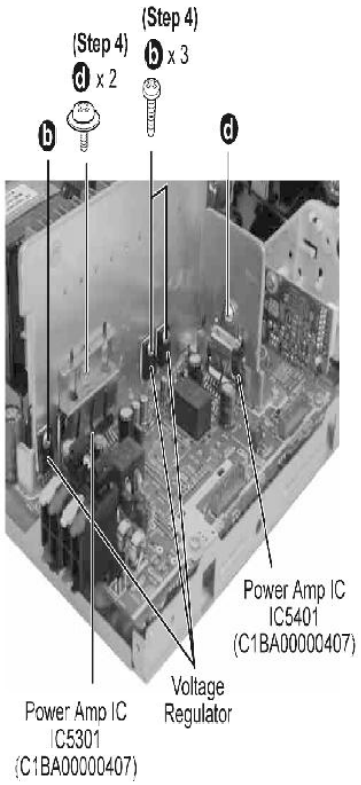
Step 3 Remove Power P.C.B..

Note:

Insulate the Power P.C.B. with insulation material to avoid short circuit.

- Replacement of the Power Amp IC or Voltage Regulator

Step 4 Remove 2 screws at the Power Amp IC and/or 3 screws to Voltage Regulator.



Step 5 Cut the joints with a metal cutter as shown below.

Step 6 Desolder the terminals to replace the components.

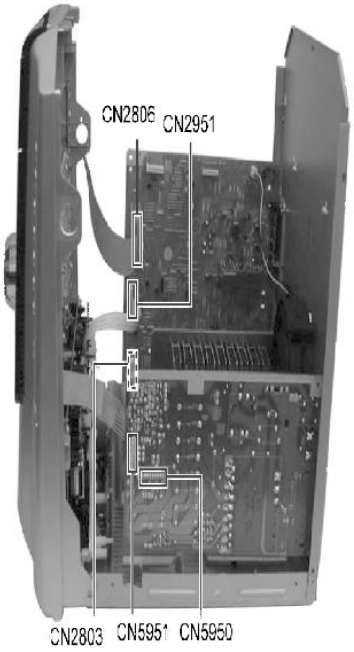
Step 7 Fix back the cut portion with a screw as shown.

10.10. Disassembly of Front Panel Unit

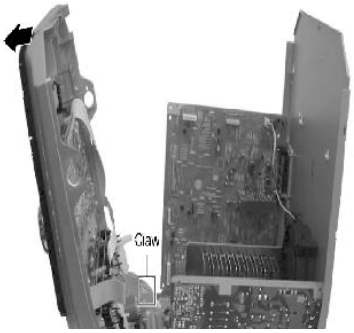
- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit

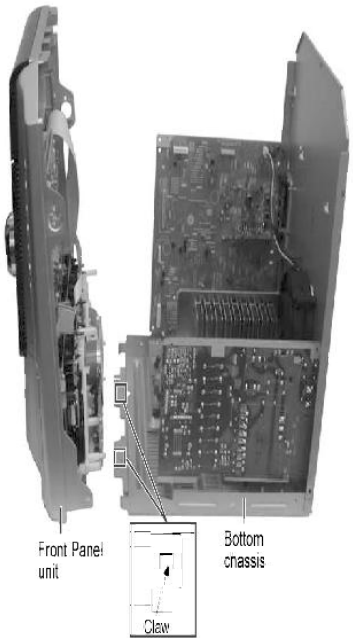
Step 1 Disconnect connectors (CN2803, CN2806, CN2951, CN5950 & CN5951).



Step 2 Bent the front panel unit slightly forward as arrow shown.



Step 3 Release 2 claws outwards.



Step 4 Remove the front panel unit.

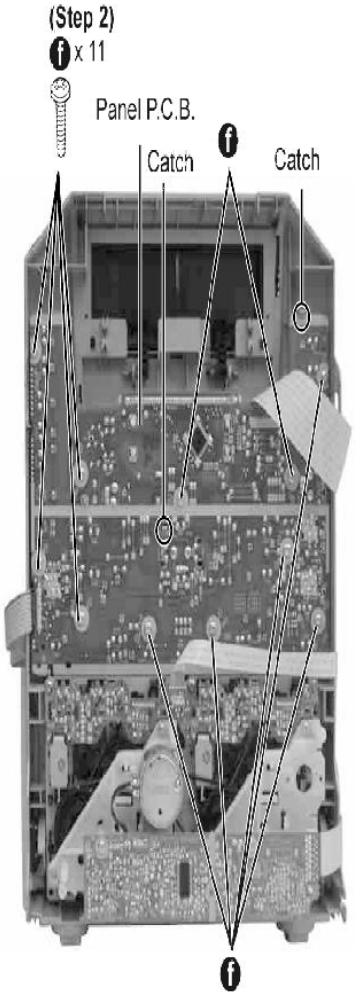
Note: Ensure 2 claws located at the bottom chassis is seated into the 2 slots at bottom of front panel at 2 catches (one on each side) of bottom chassis to be aligned to front panel's slot. Assembly is secured upon hearing clicking sound.

10.11. Disassembly for Panel P.C.B.

- **Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit**
- **Follow the (Step 1) - (Step 4) of Item 10.10 - Disassembly of Front Panel Unit**

Step 1 Remove the volume knob.

Step 2 Remove 11 screws.



Step 3 Release 2 catches.
Step 4 Remove Panel P.C.B..

10.11.1. Disassembly of Lid

Step 1 Lift the spring sideward.

Step 2 Remove Lid.
Note: Do not misplace the spring.

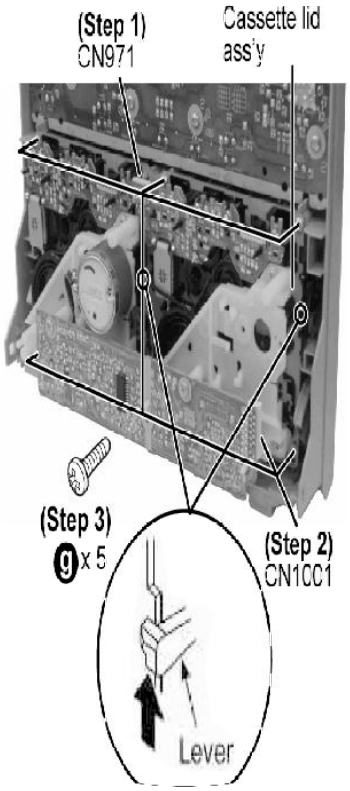
10.12. Disassembly of Deck mechanism unit

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer

Unit

- Follow the (Step 1) - (Step 4) of Item 10.10 - Disassembly of Front Panel Unit

Step 1 Detach FFC cable (CN971).
Step 2 Disconnect FFC cable (CN1001).
Step 3 Remove the 5 screws.



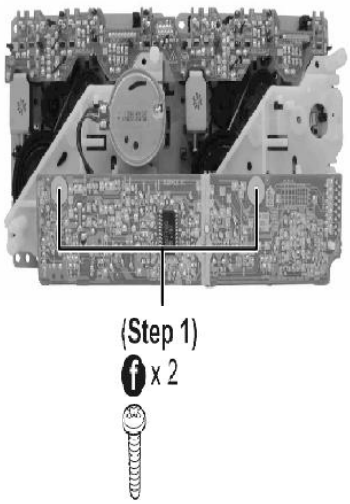
Step 4 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

Step 5 Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).
Note: For disassembly of parts for deck mechanism unit, refer to Section 10.15.

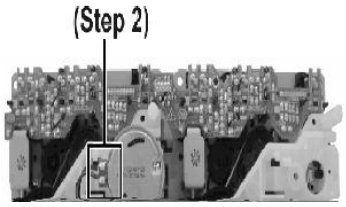
10.13. Disassembly of Deck P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit
- Follow the (Step 1) - (Step 4) of Item 10.10 - Disassembly of Front Panel Unit

Step 1 Remove 2 screws.



Step 2 Desolder wire at deck motor terminals (W1002).

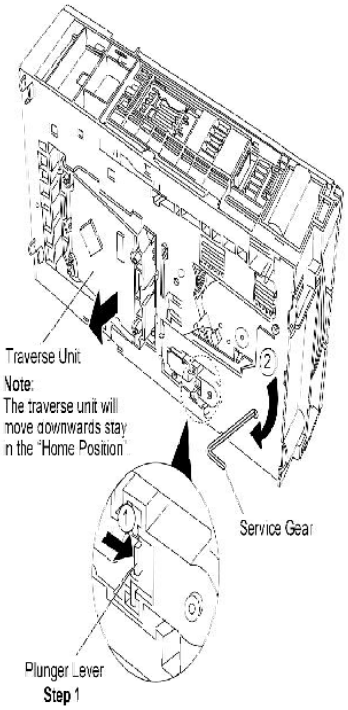


Step 3 Remove Deck P.C.B.

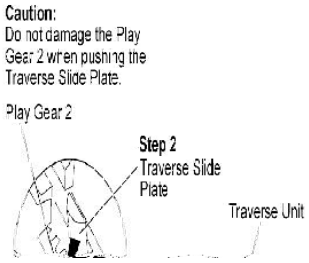
10.14. Disassembly of Traverse Unit

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit

Important notes: Ensure all the trays are in the "STOCK" position before proceeding to the disassemble of traverse unit. For procedures to set the trays in "STOCK" position, please refer to original Service Manual for CRS1, Section 7. Disassembling Procedure When Tray In Play Position, Order No. MD0509368C0.

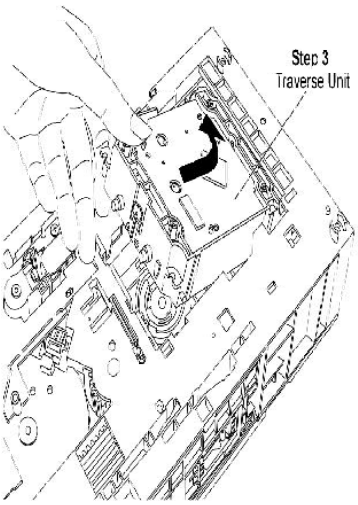


Step 1: Press and hold the plunger lever and rotate the gear as arrows shown until it stop.



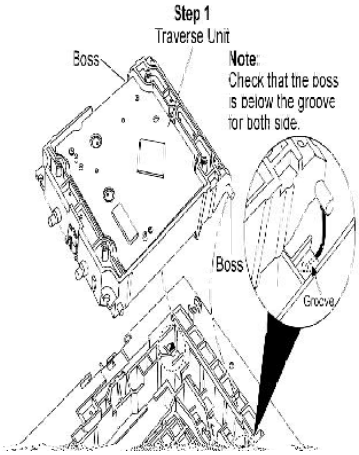
Step 2: Push the traverse slide plate as arrow shown to release the traverse unit.

Caution: Do not exert strong force on the traverse slide plate.

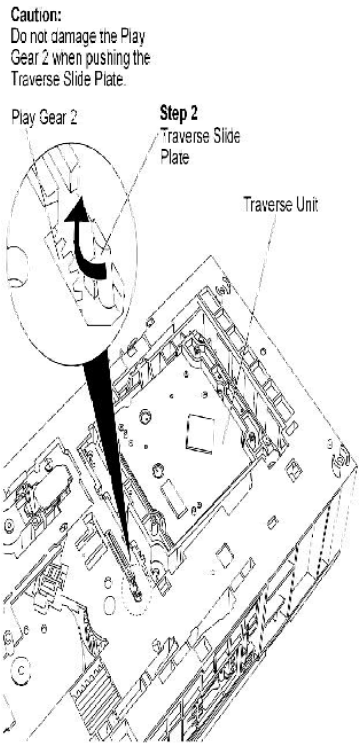


Step 3: Remove the traverse unit as arrow shown.

- Assembly of Traverse Unit



Step 1: Turn over the unit and install the traverse unit.


Caution:
Do not damage the Play Gear 2 when pushing the Traverse Slide Plate.
Play Gear 2
Step 2
Traverse Slide Plate
Traverse Unit

Step 2: Push the traverse slide plate as arrow shown to lock the traverse unit.

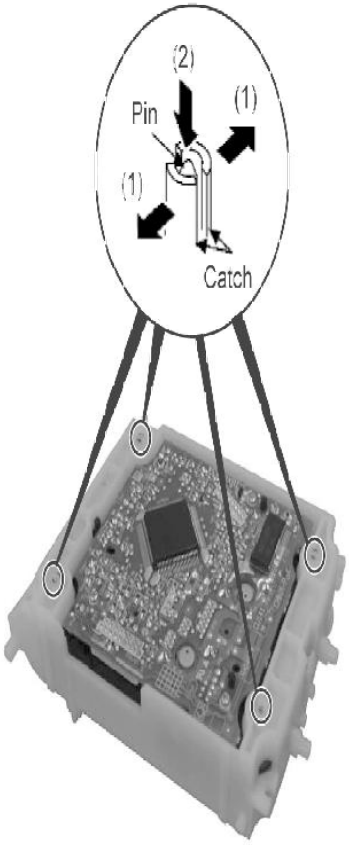
10.15. Disassembly of optical pickup unit (CD mechanism)

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit

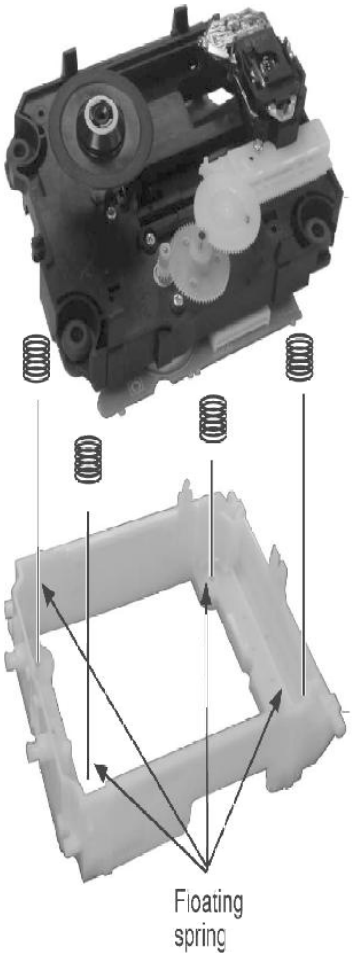
- Follow the (Step 1) - (Step 2) of Item 10.14 - Disassembly of Traverse Unit

Step 1 Pull out FFC.

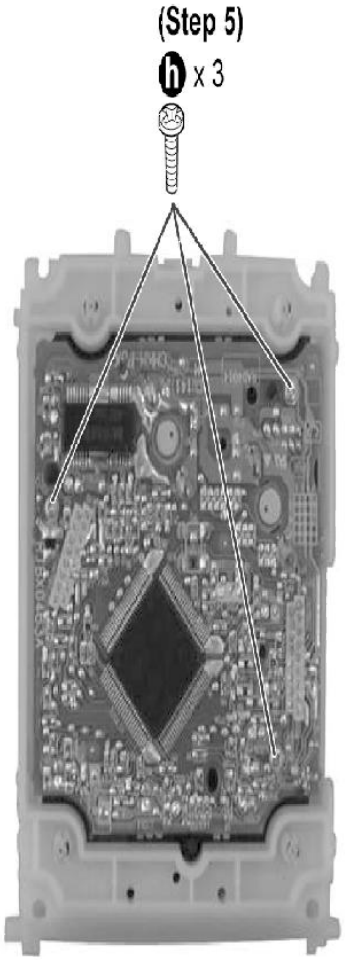


Step 2 Widening the catch, push the pin in.

Step 3 Remove 4 pins.

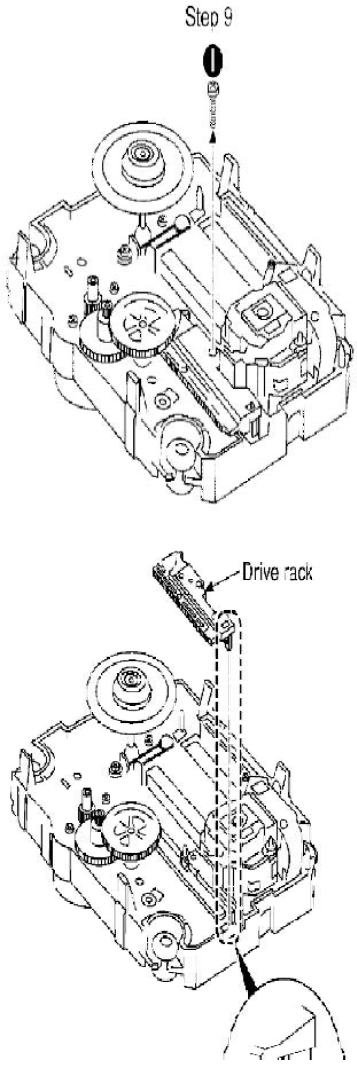


Step 4 Remove the traverse deck.
Note: As floating springs (4 pieces) come off at the same time, be careful not to lose them.

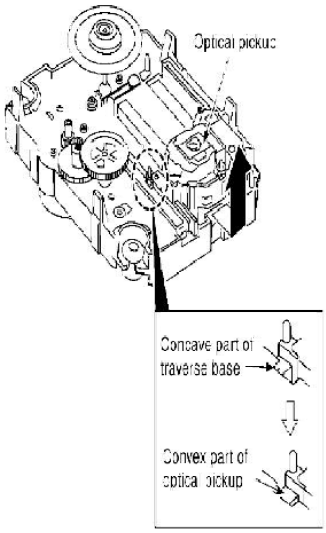


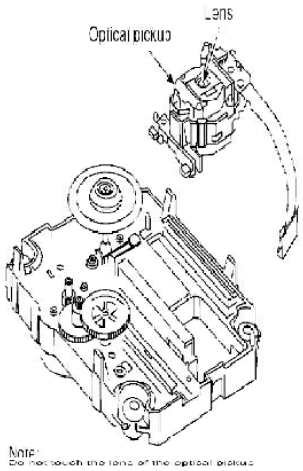
Step 5 Remove 3 screws.
Step 6 Remove the CD Servo P.C.B. and turn it over.
Note: Insert a short pin into FFC of the optical pickup.
Step 7 Rotate the traverse deck (B) to the arrow direction and shift the optical pickup to the furthest backward.

Step 8 Remove the catch of the drive rack, and take out the drive rack.



Step 9 Place the convex part of an optical pickup to the concave part of a traverse base, then take out the optical pickup.





10.16. Disassembly of Deck Mechanism

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

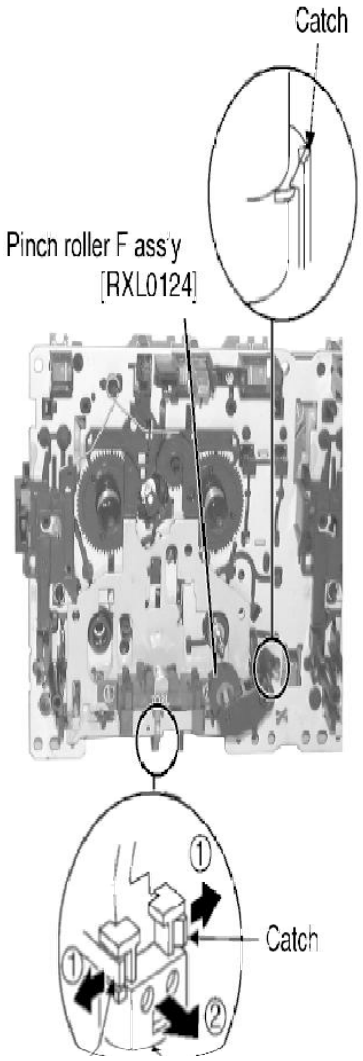
- Follow the (Step 1) - (Step 4) of Item 10.6 - Disassembly of CD Changer Unit

- Follow the (Step 1) - (Step 4) of Item 10.10 - Disassembly of Front Panel Unit

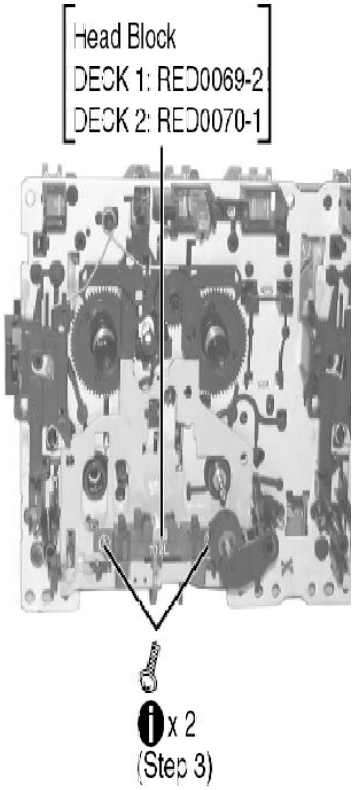
- Follow the (Step 1) - (Step 5) of Item 10.12 - Disassembly of Deck Mechanism Unit

10.16.1. Disassembly of the pinch roller ass'y and head block

*** The mechanism as shown below is for DECK1. For DECK 2, perform the same procedures.**



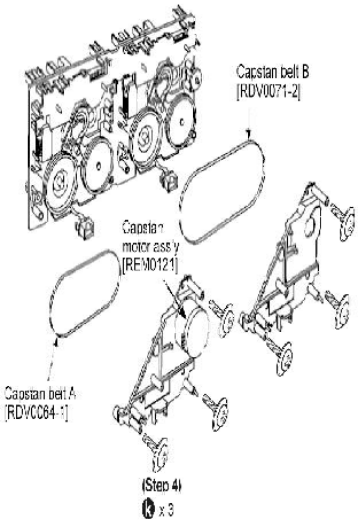
Step 1 Release the catch, and then remove the pinch roller (F).
Step 2 Release 2 claws and detach the head block connector.



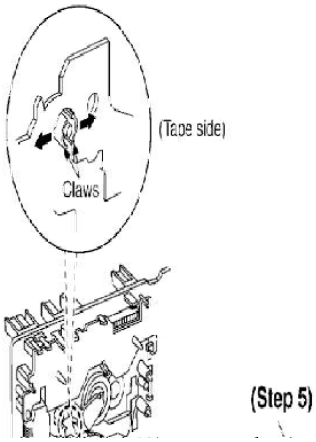
Step 3 Remove 2 screws.
Step 4 Remove head block.

10.16.2. Disassembly of capstan motor ass'y, capstan belt A, capstan belt B and winding belt

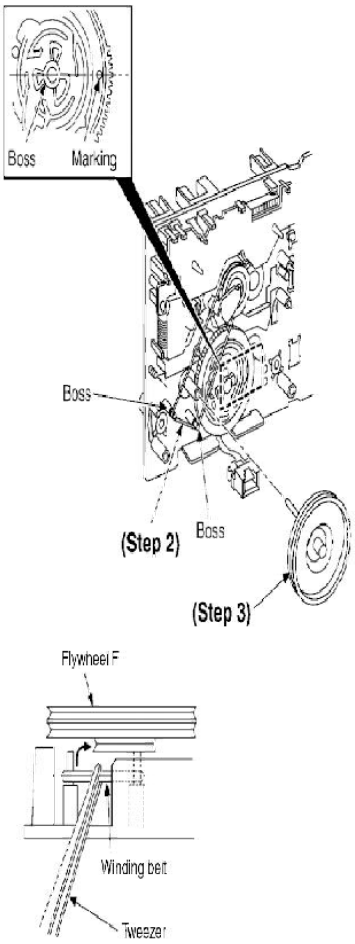
Step 1 Detach the head block connector (Deck P.C.B.).
Step 2 Desolder wire(W1002) at motor assembly.
Step 3 Remove Deck P.C.B.



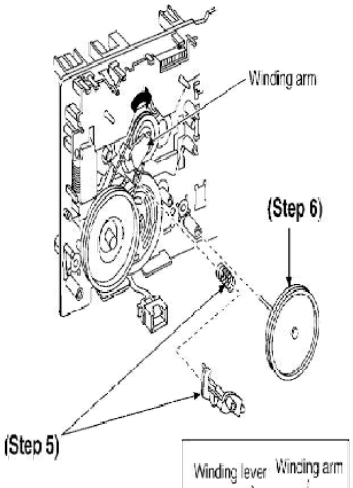
Step 4 Remove 3 screws (for deck 1 & 2).
Step 5 Remove capstan belt A/B.

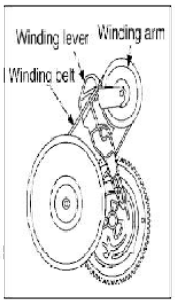


Step 6 Remove the flywheel R.
Step 7 Release the claw and remove the winding lever and spring.
[Installation of the belt]
Step 1 The boss and marking should be positioned horizontally.



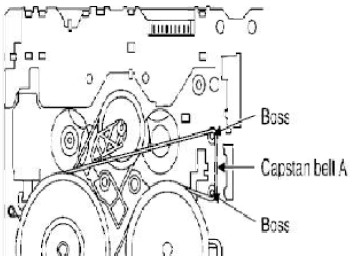
Step 2 Put the winding belt on the pulley temporarily.
Step 3 Install the flywheel F.
Step 4 Put the winding belt on the flywheel F.
Step 5 Install the winding lever and spring while pressing the winding arm in the direction of arrow.
Step 6 Install the flywheel R.



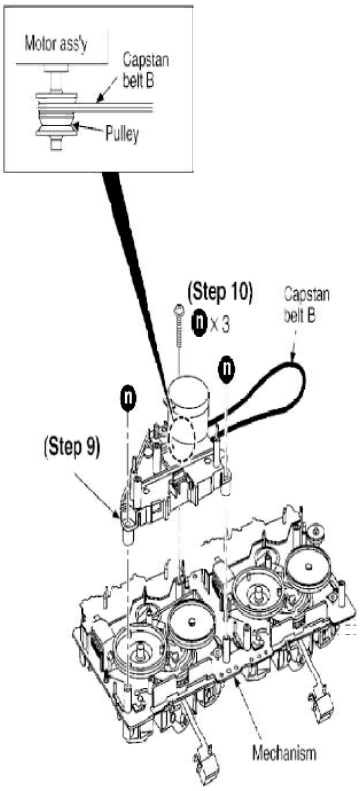


NOTE:
The winding lever should be positioned as shown below.

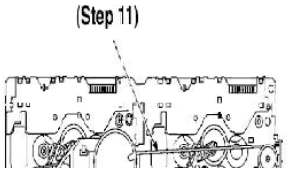
Step 7 Put the capstan belt A temporarily as shown below.



Step 8 Put the capstan belt B on the motor ass'y pulley.
Step 9 Install the sub chassis to the mechanism, and then tighten screws.



Step 10 Install 3 screws.
Step 11 Put the capstan belt B as shown below.



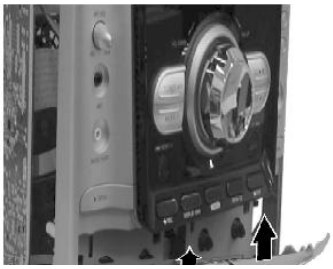
Step 12 Put the capstan belt A on the motor ass'y pulley.

10.17. Replacement for cassette lid

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

Step 1 Lift up the lever upward, open the cassette deck. (For DECK1 and DECK2)

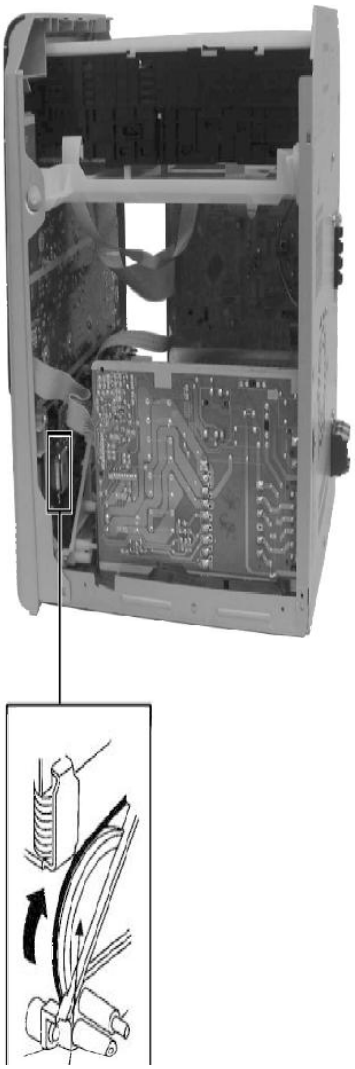
Step 2 Push up the cassette lid (L/R) in the direction of arrow. (For DECK1 and DECK2).



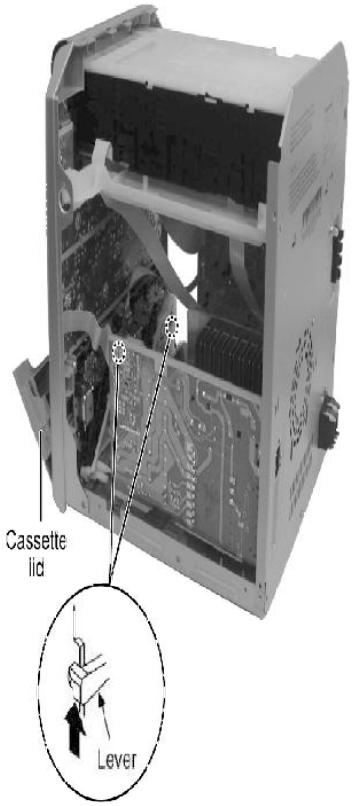
10.18. Rectification for tape jam problem

- Follow the (Step 1) - (Step 2) of Item 10.4 - Disassembly of Top Cabinet

Step 1 If a cassette tape cannot be removed from the deck (the tape is caught by the capstan or pinch roller during playback or recording), rotate the flywheel F in the direction of the arrow to remove it.



Step 2 Push the lever upward and open the cassette lid. Remove the cassette tape.



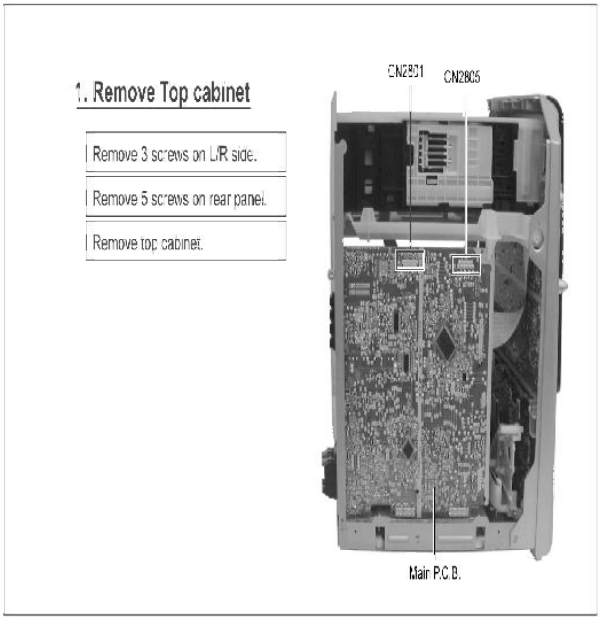
11. Service Fixture and Tools

Service Tools	
Extension FFC	
(A) Deck P.C.B. - Main P.C.B.	**REEX0485 (14 Pins)**
(B) Panel P.C.B. - Deck Mechanism P.C.B.	**REEX0484 (10 Pins)**

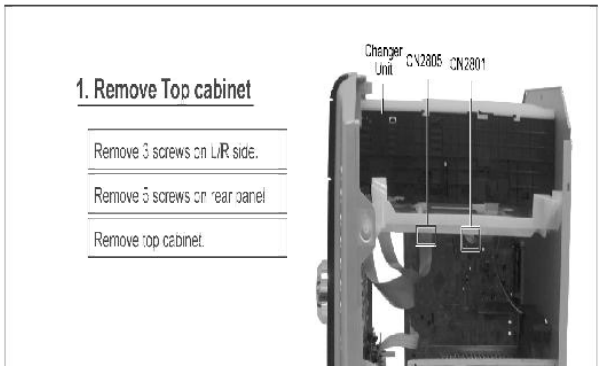
12. Service Positions

Note: For description of the disassembly procedures, see the Section 10.

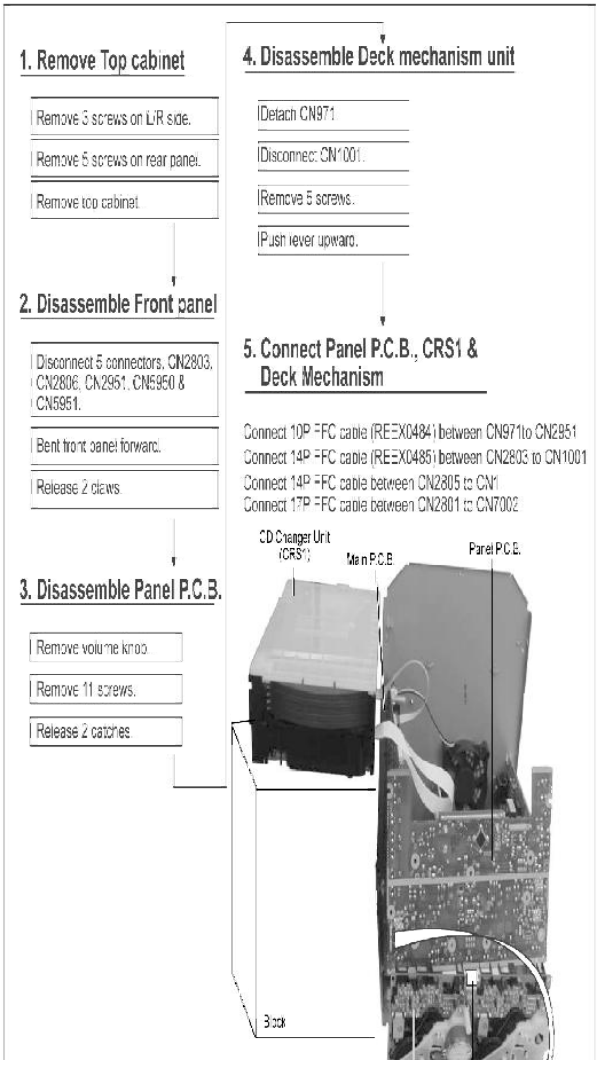
12.1. Checking and Repairing of Main P.C.B.



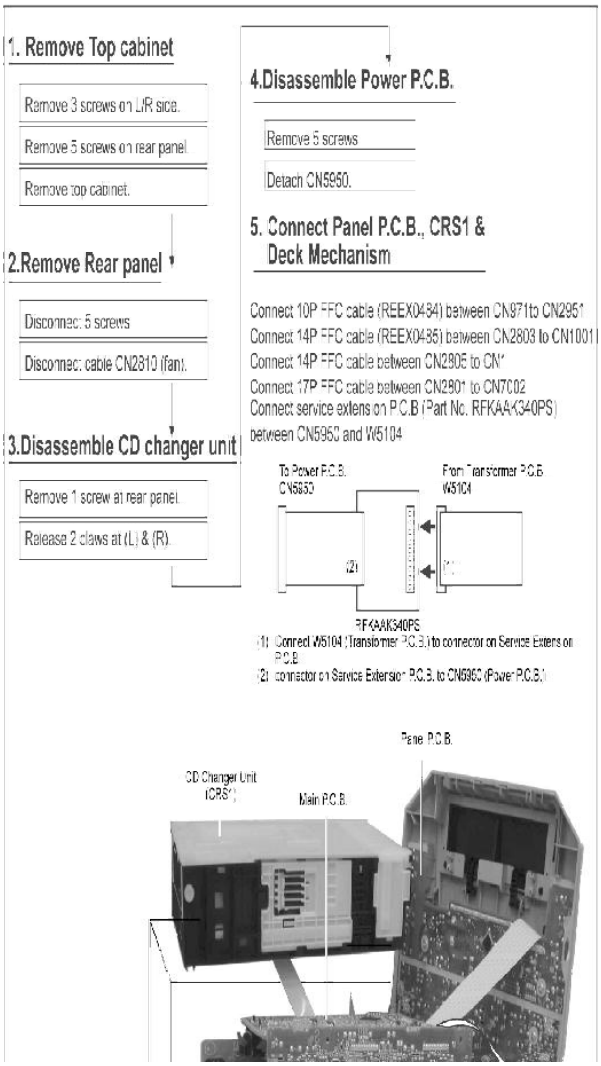
12.2. Checking and Repairing of Transformer P.C.B.



12.3. Checking and Repairing of Panel, Deck & Deck Mechanism P.C.B.


1. Remove Top cabinet
Remove 3 screws on L/R side.
Remove 5 screws on rear panel.
Remove top cabinet.
2. Disassemble Front panel
Disconnect 5 connectors, CN2803, CN2806, CN2951, CN5950 & CN5951.
Bent front panel forward.
Release 2 claws.
3. Disassemble Panel P.C.B.
Remove volume knob.
Remove 11 screws.
Release 2 catches.
4. Disassemble Deck mechanism unit
Detach CN971.
Disconnect CN1001.
Remove 5 screws.
Push lever upward.
5. Connect Panel P.C.B., CRS1 & Deck Mechanism
Connect 10P FFC cable (REEX0484) between CN971to CN2851
Connect 14P FFC cable (REEX0485) between CN2803 to CN1001
Connect 14P FFC cable between CN2805 to CN1
Connect 17P FFC cable between CN2801 to CN7002
CD Changer Unit (CRS1)
Main P.C.B.
Panel P.C.B.
Block

12.4. Checking and Repairing of Power P.C.B.


1. Remove Top cabinet
Remove 3 screws on L/R side.
Remove 5 screws on rear panel.
Remove top cabinet.
2.Remove Rear panel
Disconnec: 5 screws
Disconnec: cable CN2810 (fan).
3.Disassemble CD changer unit
Remove 1 screw at rear panel.
Release 2 claws at (L) & (R).
4.Disassemble Power P.C.B.
Remove 5 screws
Detach CN5950.
5. Connect Panel P.C.B., CRS1 & Deck Mechanism
Connect 10P FFC cable (REEX0434) between CN971to CN2951
Connect 14P FFC cable (REEX0435) between CN2803 to CN1001
Connect 14P FFC cable between CN2805 to CN
Connect 17P FFC cable between CN2801 to CN7C02
Connect service extens on P.C.B (Part No. RFKAA3340PS)
between CN5950 and W5104
To Power P.C.B.
CN5950
From Transformer P.C.B
W5104
RFKAAK340PS
Panel P.C.B.
CD Changer Unit
(CRS1)
Main P.C.B.

13. Adjustment Procedures

13.1. Cassette Deck Section

- Measurement Condition

- Reverse-mode selector switch:
- Deck Tape Select: NORMAL
- Make sure head, capstan and press roller are clean.

- Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
- EVM (DC Electronic voltmeter)
- Digital frequency counter
- Test Tape
- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

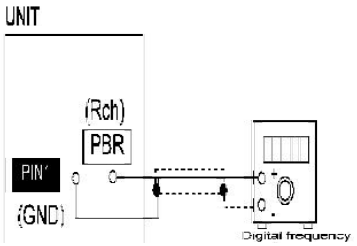
13.1.1. Tape Speed Adjustment (Deck 1/2)

1. Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.
2. Adjust Motor VR (DECK 2) for the output value shown below.

Adjustment target: 2910 ~ 3090 Hz (NORMAL speed)

3. After alignment, assure that the output frequency of the DECK 1 FWD are within ±60 Hz of the value of the output frequency of DECK 2 FWD.

Fig. 1



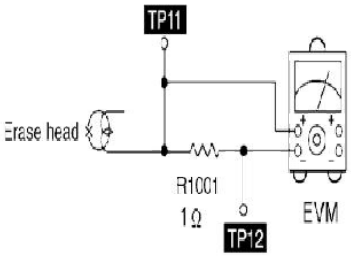
13.1.2. Bias Voltage Check

1. Set the unit “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to “REC” mode (use “ REC/STOP” key).
3. Measure and make sure that the output is within the standard value.

Bias voltage for Deck 2	14±4mV (Normal)

Fig. 2

Fig. 3

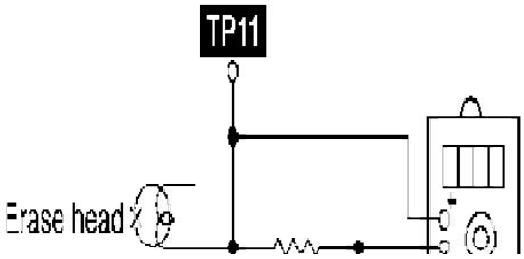


13.1.3. Bias Frequency Adjustment (Deck 1/2)

1. **Set the unit to "AUX" position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (● use "REC/STOP" key).**
3. **Adjust L1002 so that the output frequency is within the standard value as below.**

Standard Value: 89 ~ 110 kHz

Fig. 4



13.1.3.1. Cassette Deck Section

Below is the locations of test points for Deck P.C.B.:-

13.2. Tuner Section

This section include details on the alignment of AM-IF and AM RF adjustment.

13.2.1. AM-IF Alignment

1. **Set up the equipments as shown in Fig. 5.**

2. Select [TUNER] mode on selector and set to [AM] mode.
3. Apply signal as shown in Fig. 5 from AM-SG.
4. Adjust Z2602 accordingly so that the output frequency is maximized at 450kHz in Fig. 6.

Fig. 5

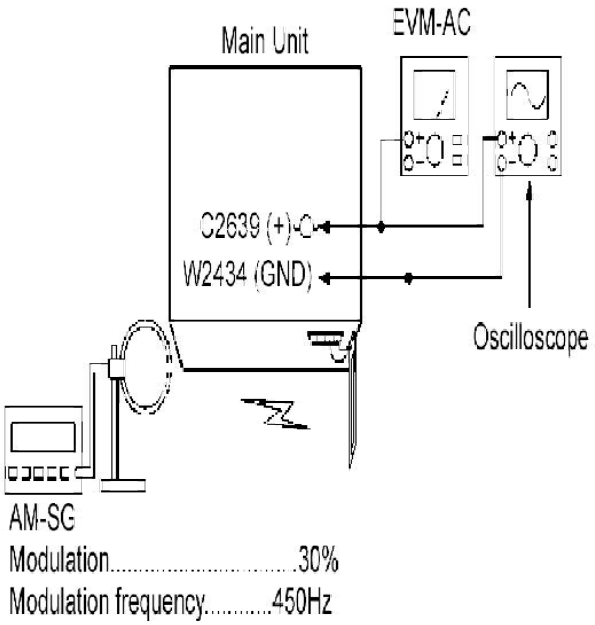


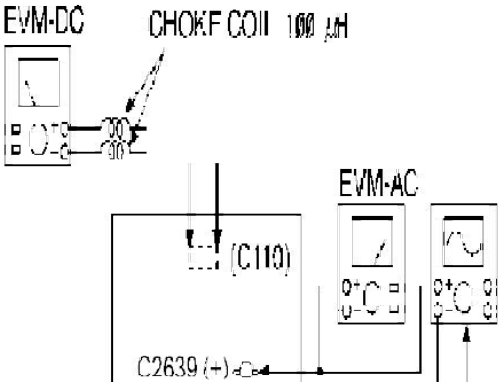
Fig. 6

13.2.2. AM RF Adjustment

1. Set up the equipments as shown in Fig. 7.

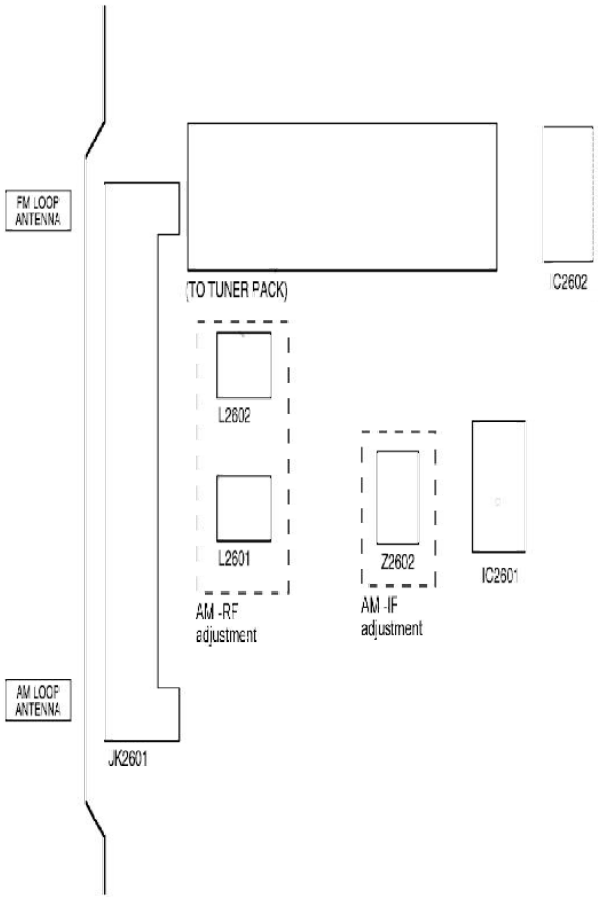
2. Select [TUNER] on selector and set to [AM] mode.
3. Set AM-SG to 520kHz.
4. Receive 520kHz in the unit.
5. Adjust L2601 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 600Hz.
7. Receive 600Hz in the unit.
8. Adjust L2601 (ANT) so that the EVM-SG is maximized.
9. Set AM-SG to 520kHz.
10. Receive 520kHz in the unit.
11. Adjust L2602 (OSC) so that the EVM-DC value is with 1.1±0.5V.

Fig. 7



13.2.3. Adjustment Point

Below is the locations of alignment points on the Main (Tuner) P.C.B.



14. Voltage and Waveform Chart

Note:

Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

14.1. CD Servo P.C.B. & Main P.C.B.

14.2. Power P.C.B. and Transformer P.C.B.

14.3. Waveform Chart

15. Wiring Connection Diagram

16. Block Diagram

17. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

17.1. Notes of Schematic Diagrams

S951

: MODE Switch

S952
: HALF Switch

S971
: MODE Switch

S972
: HALF Switch

S975
: RECINH_F Switch

S5950
: VOLTAGE SELECTOR Switch

S6101
: POWER Switch

S6102
: SINGLE DISC CHANGE Switch

S6103
: OPEN/CLOSE Switch

S6104
: CD 1 Switch

S6105
: CD 2 Switch

S6106
: CD 3 Switch

S6107
: CD 4 Switch

S6108
: CD 5 Switch

S6201
: DECK 2 OPEN Switch

S6202
: DISPLAY/DEMO Switch

S6203
: DECK 1/2 Switch

S6204
: H.BASS Switch

S6205
: FF Switch

S6206
: REW Switch

S6207
: DECK 1 OPEN Switch

S6301
: CD Switch

S6302
: TAPE Switch

S6303
: STOP Switch

S6304
: REC Switch

S6305
: TUNER/BAND Switch

S6306
: MUSIC PORT Switch

S6308
: MULTI DISC CHANGE Switch

S7201
: REST Switch

VR6491
: VR VOLUME JOG

VR6511
: VR MIC VOLUME

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.
- Importance safety notice :
  Components identified by mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise

(resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

17.2. (A) CD Servo Circuit

17.3. (B) Main (Tuner) Circuit

17.4. (B) Main Circuit

17.5. (C) Panel Circuit

17.6. (D) Transformer Circuit

17.7. (E) Power Circuit

17.8. (F) Deck Circuit & (G) Deck Mechanism Circuit

18. Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

18.1. (A) CD Servo P.C.B.

18.2. (B) Main P.C.B.

18.3. (C) Panel P.C.B.

18.4. (D) Transformer P.C.B.

18.5. (E) Power P.C.B.

18.6. (F) Deck P.C.B. & (G) Deck Mechanism P.C.B.

19. Illustration of ICs, Transistors and Diodes

20. Terminal Function of IC's

20.1. IC7001 (MN6627954MA) Servo Processor,Digital Signal Processor/ Digital filter and D/A Converter

Pin No.	Mark	I/O	Function
1	A11	O	DRAM address signal O/P 11
2	A9	O	DRAM address signal O/P 9
3	A8	O	DRAM address signal O/P 8
4	A7	O	DRAM address signal O/P 7
5	A6	O	DRAM address signal O/P 6
6	A5	O	DRAM address signal O/P 5
7	A4	O	DRAM address signal O/P 4
8	NWE	O	Write Enable Signal (DRAM)
9	NCAS	O	DRAM CAS Control Signal
10	NRAS	O	DRAM ARS Control Signal
11	A3	O	DRAM address Signal O/P 3
12	A2	O	DRAM address Signal O/P 2
13	A1	O	DRAM address Signal O/P 1
14	A0	O	DRAM address Signal O/P 0
15	A10	O	DRAM address Signal O/P 10
16	BA0	N.C.	Motor O/P (0);/Serial I/P
17	BA1	N.C.	Motor O/P (1);/Serial I/P
18	PRAMVSS33	-	GND (DRAM)
19	PRAMVDD15	-	Power Supply Voltage (DRAM)
20	PRAMVDD33	-	Power Supply Voltage (+1.6V)
21	SPOUT	O	Spindle Drive O/P
22	PC	I/O	Spindle motor drive O/P signal serial data/ Monitoring I/P
23	TRVP	O	Traverse Drive O/P (+ve)
24	TRP	O	Tracking Drive O/P (+ve)
25	FOP	O	Focusing Drive O/P (+ve)
26	DVSS1	-	GND

Pin No.	Mark	I/O	Function
27	IOVDD2	I	Digital Power Supply Voltage 2 (I/O)
28	DVDD1	-	Digital Power Supply Voltage 1 (Built-In)
29	SRVMON0	N.C.	Servo Monitor (0) O/P
30	SRVMON1	N.C.	Servo Monitor (1) O/P
31	AVSS2	-	GND
32	OSCIN	I	Oscillating Input
33	CTRCRS	N.C.	Tracking Cross Comparator
34	VREF	-	+Vref Supply Voltage
35	E	I	Tracking Input Signal 1
36	F	I	Tracking Input Signal 2
37	D	I	Focusing Input Signal 4
38	B	I	Focusing Input Signal 2
39	C	I	Focusing Input Signal 3
40	A	I	Focusing Input Signal 1
41	PD	I	APC Amp I/P
42	LD	O	Laser Drive Current O/P
43	CENV	I	Detection Capacitance Connection terminal
44	RFENV	O	RF Envelope O/P
45	RFOUT	O	RF Summing Amp O/P
46	RFIN	I	SGC I/P
47	AVDD2	I	Analog Power Supply voltage 2 (For DSL/PLL)
48	ARFDC	O	AGC Capacitive Connection Terminal
49	ARFOUT	O	AGC Output
50	ARFFB	I	ARF Feedback Signal I/P
51	ARFIN	I	Audio RF Signal I/P
52	DSLF	I	Loop Filter Terminal (For DSL)
53	IREF	I	Reference I/P
54	PLLF	I	PLL Loop Filter Terminal (Phase Compare)
55	PLLF0	O	PLL Loop Filter Terminal (Speed Compare)
56	OUTL	O	Audio O/P (LCH)
57	AVSS1	-	GND
58	AVDD1	I	Analog Power Supply Voltage 1
59	OUTR	O	Audio O/P (RCH)
60	DVSS3	I	GND3 (Digital Circuit)

Pin No.	Mark	I/O	Function
61	NSRVMONON	I	Servo Motor O/P Enabling
62	EXT0	N.C.	Expansion O/P Port 0
63	EXT1	N.C.	Expansion O/P Port 1
64	EXT2	N.C.	Expansion O/P Port 2
65	FLAG	N.C.	Flag Signal O/P
66	TX	N.C.	Digital Audio Interface O/P signal
67	MCLK	I	Micro-Computer Command Clock I/P
68	MDATA	I	Micro-Computer Data I/P
69	MLD	I	Micro-Computer Load I/P
70	STAT	O	Status Signal O/P
71	BLKCK	O	Subcode Blk Clock
72	NRST	O	LSI Reset Signal
73	DQSYTXT	N.C.	Pack Signal O/P for CD-Text data
74	SMCK	N.C.	Micro-Computer Clock O/P
75	PMCK	N.C.	IOCNT Serial data O/P (Synchronous O/P)
76	DVDD2	-	Digital Power Supply Voltage 2 (+1.5V)
77	IOVDD1	-	Digital Power Supply Voltage 1 (For I/O)
78	DVSS2	-	GND2 (For Digital Circuit)
79	NTEST2	I	Test Mode Setting (ON: H)
80	X2	O	Crystal Oscillating Circuit O/P
81	X1	I	Crystal Oscillating Circuit I/P
82	NTEST	I	Test Mode Setting I/P (ON:H)
83	D2	I/O	Data Signal O/P 2
84	D1	I/O	Data Signal O/P 1
85	D0	I/O	Data Signal O/P 0
86	D3	I/O	Data Signal O/P 3
87	D4	I/O	Data Signal O/P 4
88	D5	I/O	Data Signal O/P 5
89	D6	I/O	Data Signal O/P 6
90	D7	I/O	Data Signal O/P 7
91	D15	I/O	Data Signal O/P 15
92	D14	I/O	Data Signal O/P 14

Pin No.	Mark	I/O	Function
93	DRVDD	I	I/O Power Supply Voltage (DRAM)
94	D13	I/O	Data Signal O/P 13
95	D12	I/O	Data Signal O/P 12
96	D11	I/O	Data Signal O/P 11
97	D10	I/O	Data Signal O/P 10
98	D9	I/O	Data Signal O/P 9
99	D8	I/O	Data Signal O/P 8
100	SDRCK	O	Clock Signal O/P

20.2. IC7002 (BA5948FPE2) IC 4CH Drive

Pin No.	Mark	I/O	Function
1	IN2	I	Motor Driver 92 Input
2	PC2	I	Turntable Motor Drive Signal (“L”:ON)
3	IN1	I	Motor Drive (1) Input
4	PC1	-	Traverse Motor Drive Signal (“L”): ON)
5-8	N.C.	-	No Connection
9	PGND1	-	Ground Connection (1) for Drive
10	PVCC1	I	Power Supply (1) for Drive
11	D1-	O	Motor Drive (1) reverse - action output
12	D1+	O	Motor Drive (1) forward - action output
13	D2-	O	Motor Drive (2) reverse - action output
14	D2+	O	Motor Drive (2) forward - action output
15	D3-	O	Motor Drive (3) reverse - action output
16	D3+	O	Motor Drive (3) forward - action output
17	D4-	O	Motor Drive (4) reverse - action output
18	D4+	O	Motor Drive (4) forward - action output
19	PVCC2	-	Power Supply (2) for Driver

Pin No.	Mark	I/O	Function
20	PGND2	-	Ground Connection (2) for Driver
21-24	N.C.	O	No Connection
25	VCC	I	Power Supply terminal
26	VREF	I	Reference Voltage Input
27	IN4	I	Motor Driver (4) Input
28	IN3	I	Motor Driver (3) Input

20.3. IC2801 (C2CBYY000053) System Microprocessor

Pin No.	Mark	I/O	Function
1	LM_1	-	Level Meter
2	PA_LVL	-	No Connection
3	PLLCE	O	PLL Chip Select
4	RDS_DA	I	RDS Data Input
5	RDS_CLK	I	RDS Clock Input
6	MODE_A	-	No Connection
7	F_Hop	O	F_Hop for Digital Amp
8	BYTE	-	External Data Bus Width Select Input (Connect to Ground)
9	CNVSS	-	Flash Mode Terminal (Connect to Ground)
10	XC_IN	-	32.768 kHz Sub Clock
11	XC_OUT	-	32.768 kHz Sub Clock
12	/RESET	-	Reset Input (ACTIVE L)
13	X_OUT	-	10 MHz Main Clock
14	VSS	-	Ground (0V)
15	XIN	-	10 MHz Main Clock
16	VCC	-	Power Supply (+5V)
17	/NMI	-	Connect to Vcc (+5V)
18	RMT	I	Remote Control Input
19	BLKCK	I	CD Block Clock Input (Inverted)
20	SYNC	I	AC Failure Detect Input
21	ST/DO	I	Tuner IF Data/ Stereo Input
22	SD	I	Tuner Signal Detect Input
23	N.C.	-	No Connection
24	SW_LV-1	O	Sub-Woofer Level 1
25	SW_LV-2	O	Sub-Woofer Level 2
26	ASP_DA	O	ASP DATA
27	ASP_CLK	O	ASP CLOCK

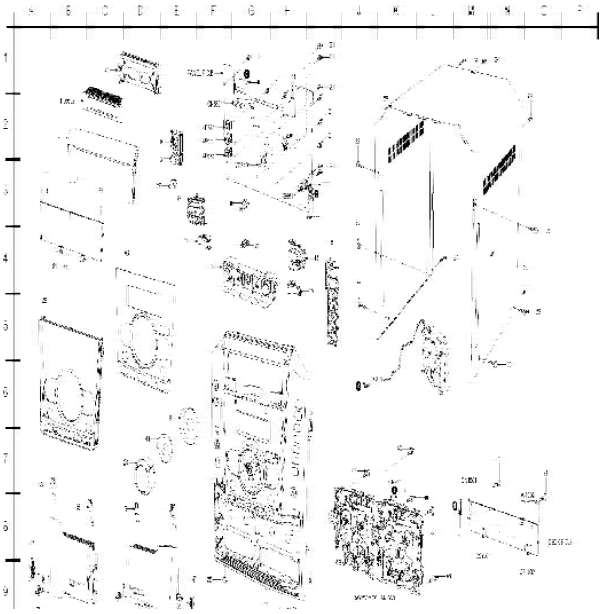
Pin No.	Mark	I/O	Function
28	10DB_ATT	O	No Connection
29	PLL_DAT	O	PLL DATA
30	PLL_CLK	O	PLLCLK
31	REG8	-	To GND resistor
32	REG7	I	Region Setting 7 (MIC)/ Flash Rx
33	REG6	I	Region Setting 6 (RDS)/ Flash Clock
34	REG5	O	Chip Select/Flash Busy
35	REG4	I	Latin Non Chip Select
36	REG3	I	Region Setting 3 (Tuner)
37	REG2	I	Region Setting 2 (Tuner)
38	REG1	I	Region Setting 1 (Tuner)
39	MUTE_DA	O	Mute_DA for Digital Amp
40	MUTE_A	O	Audio Mute
41	EE_CS/EFP/ EPH	O	EEPROM Chip Select
42	EE_CLK	O	EEPROM CLOCK
43	EE_DAT	I/O	EEPROM DATA
44	N.C.	-	No Connection
45	N.C.	-	No Connection
46	PCONT/EFP/ CS	O	Main Transformer Control Output
47	DCDET	I	DC Detect Input
48-49	N.C.	-	No Connection
50	STANDBY	O	Standby mode
51	N.C.	-	No Connection
52	HALF_1	I	Deck 1 HALF PLAYBACK INPUT
53	MODE_1	I	Deck 1 MODE PLYABACK INPUT
54	N.C.	-	No Connection
55	N.C.	-	No Connection
56	PLG1	O	Deck 1 plunger control
57	PLG2	O	Deck 2 plunger control
58	MTR	O/I	Deck motor control (“L” for motor ON)
59	REC	O/I	L when record circuit is operating
60	DECK1_H	O	H when DECK 1 P/B head is selected
61	N.C.	-	No Connection
62	VCC	-	Power Supply (+5V)
63	N.C.	-	No Connection
64	VSS	-	Ground (0V)

Pin No.	Mark	I/O	Function
65	SW_LED	O	SUB WOOFER LED
66	VOL_LED	O	VOLUME_LED
67	V_JOG_A	I	Volume Jog A
68	V_JOG_B	I	Volume Jog B
69	FL_RESET	O	FL Driver reset
70	FL_CS	I/O	FL Driver Chip Select
71	FL_DOUT	O	Serial Data To FL Driver
72	FL_CLK	I/O	Serial Clock To FL Driver
73	H.BASS_LED	O	H.BASS LED
74	CD_RST	O	CD Reset Output
75	STATUS	I	CD Servo LSI Status Input
76	MLD	O	CD Command Load Output
77	MDATA	O	CD Command Data Output
78	MCLK	O	CD Command Clock Output
79	/RESTSW	I	CD Limit Switch Input for the most Inner Point (Active Low)
80	HOME_SW	I	Home Switch for CRS1
81	SPEED	O	SPEED is For CRS1 (cater)
82	CLOSE_SW	I	CLOSE SW is for CRS1
83	OPEN_SW	I	Open_Sw for CRS1
84	CHG_CW	O	CRS1 motor CW
85	CHG_CCW	O	CRS1 motor CCW
86	ST_SW	I	Stock_Sw for CRS1
87	PLAY_SW	I	Play_Sw for CRS1
88	CHG_PLR	O	Plunger for CRS1
89	BOTTOM_SW	I	Bottom_SW for CRS1
90	UP_SENSOR	I	UD-Sensor for CRS1
91	DECK2	I	DECK CONDITION INPUT 2 (R_INHF/MODE2/HALF2)
92	KEY3	I	KEY3 INPUT
93	KEY2	I	KEY2 INPUT
94	KEY1	I	KEY1 INPUT
95	PHOTO_2	I	Rotation Detection Signal (Deck 2)
96	AVSS	-	Analog Power Supply Input (Connect to GND)
97	PHOTO_1	I	Rotation Detection Signal (Deck 1)

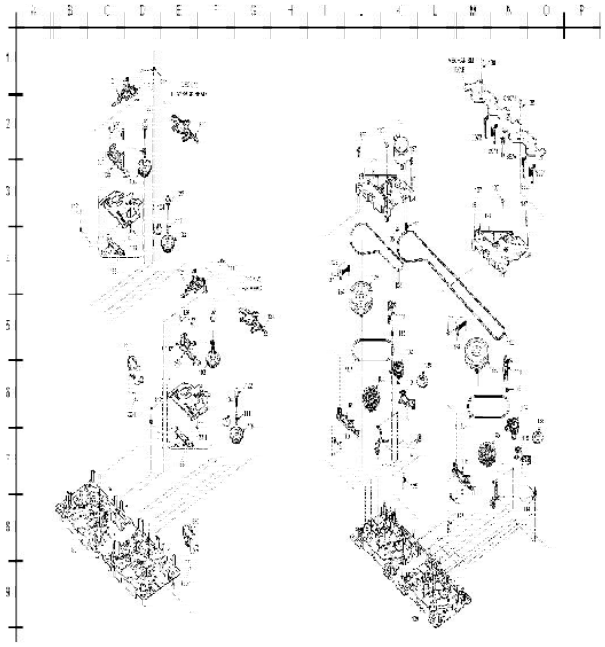
Pin No.	Mark	I/O	Function
98	VREF	-	Reference for A-D (5V)
99	AVCC	-	Analog Power Supply Input
100	DEMO	I	(H= default demo on, L= default demo off.)

21. Exploded Views

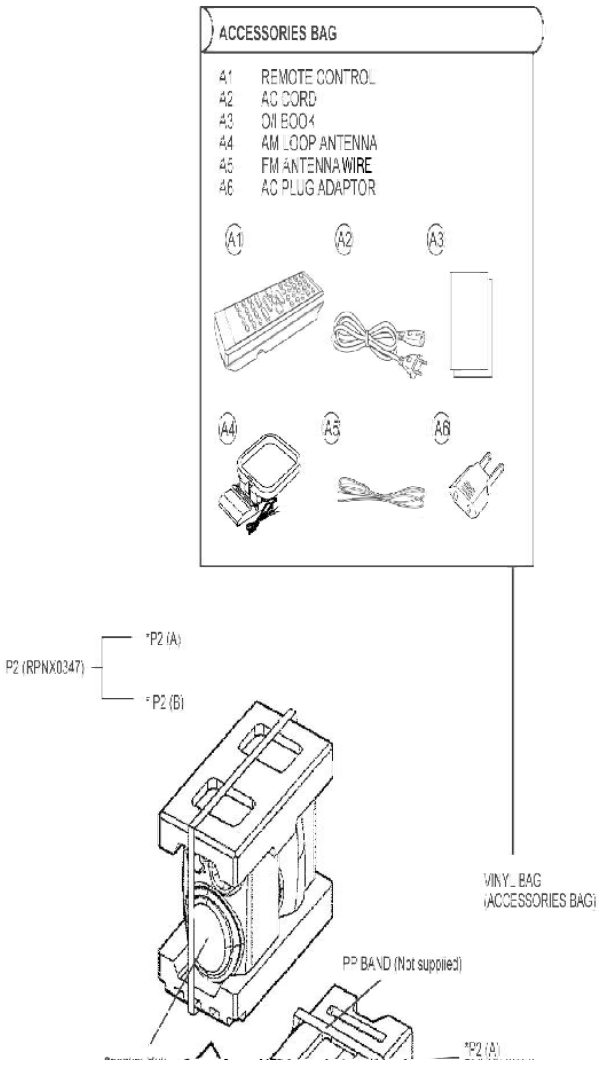
21.1. Cabinet Parts Location



21.2. Deck Mechanism Parts Location (RAA4502-S)



21.3. Packaging



22. Replacement Parts List

Notes:

- Important safety notice:

Components identified by mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)**
  Parts without these indications can be used for all areas.
- **Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".**
- **Capacitor values are in microfarads (F) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **Reference for O/I book languages are as follows:**

Ar:	**Arabic**	**Du:**	**Dutch**	**It:**	**Italian**	**Sp**	**Spanish**
Cf:	**Canadian French**	**En:**	**English**	**Ko:**	**Korean**	**Sw:**	**Swedish**
Cz:	**Czech**	**Fr:**	**French**	**Po:**	**Polish**	**Co:**	**Traditional Chinese**
Da:	**Danish**	**Ge:**	**German**	**Ru:**	**Russian**	**Cn:**	**Simplified Chinese**
Pe:	**Persian**						

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	L6FALEFH0030	FAN UNIT	[M]
2	REEX0212-2	WIRE	[M]
3	REEX0503	10P FFC WIRE	[M]
4	REEX0513	17P FFC WIRE	[M]
5	REEX0528	14P FFC WIRE	[M]
6	REEX0529	30P FFC WIRE	[M]
7	RGKX0319-K	TOP ORNAMENT	[M]
8	RGKX0320-K	CD LID	[M]
9	RGLX0120-Q	VOLUME LIGHT PIECE	[M]
10	RGLX0121-Q	POWER LIGHT PIECE	[M]
11	RGPX0206B-S	FRONT PANEL	[M]
12	RGRX0054B-A	REAR PANEL	[M]
13	RGUX0637-S	POWER BUTTON	[M]
14	RGUX0638-S	OPEN DECK 1 BUTTON	[M]
15	RGUX0639-S	OPEN DECK 2 BUTTON	[M]
16	RGUX0640-S	DISC/OPEN/5 DISC BTN	[M]
17	RGUX0642-S	FUNCTION BUTTON L	[M]
18	RGUX0643-S	FUNCTION BUTTON R	[M]
19	RGUX0644-K	CONTROL BUTTON	[M]
20	RGWX0093-S	VOLUME KNOB	[M]
21	RHD26046-L	SCREW	[M]
22	RHD30007-1SJ	SCREW	[M]
23	RHD30111-3	SCREW	[M]
24	RHD30119-S	SCREW	[M]
25	RKA0072-KJ	LEG RUBBER	[M]
26	RKFX0131-S	CASS LID L	[M]
27	RKFX0132-S	CASS LID R	[M]
28	RKMX0117-S	TOP PANEL (BEND)	[M]
29	RKWX0253-H	FL WINDOW	[M]
30	RMBX0036	CASS OPEN SPRING	[M]
31	RMBX0049	DPIM IMPORT MECH	[M]
32	RMC0158-S2	TRANSISTOR HOLDER	[M]
33	RMCX0021-J	TRANSISTOR CLIP	[M]
34	RMG0547-K	CUSHION	[M]
35	XTWS3+6TFJ	SCREW	[M]
36	RMGX0044	D.AMP.IC INSULATOR	[M]
37	RMKX0112	BOTTOM CHASSIS	[M]
38	RMKX0113	CD CHASSIS	[M]
39	RMNX0161	LED HOLDER	[M]
40	RMNX0162	FL HOLDER	[M]
41	RMQX0150-W	VOL. LIGHT DIFFUSER	[M]
42	XTW3+10TFC	SCREW	[M]
43	RMVX0092	FL WINDOW BACK GROUN	[M]
44	RMYX0131	SUB HEAT SINK	[M]
45	RUS757ZAA	CASS HALF SPRING	[M]
46	XTV3+10GFJ-M	SCREW	[M]
47	RXGX0002	DAMPER GEAR	[M]
48	RXXX0066	HEAT SINK UNIT	[M]
49	XTW3+12TFJ	SCREW	[M]
50	RGWX0096-S	MIC VOL KNOB	[M]
		CASSETTE DECK	
101	RED0069-2	R/P HEAD BLOCK UNIT	[M]
102	RED0070-1	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026-4	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064-1	CAPSTAN BELT	[M]
109	RDV0071-2	CAPSTAN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406-5	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370-4	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372-2	WINDING LEVER	[M]
119	RML0374-2	EJECT LEVER	[M]
120	RMM0131-1	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS'Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-2	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASS'Y	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412-3	HEAD PANEL ASS'Y	[M]
133-1	RMB0405-1	FR ROD SPRING	[M]
133-2	RMM0132-1	FR ROD	[M]
134	REM0121	CAP MOTOR ASS'Y	[M]
135	RHD26022-1	MOTOR SCREW	[M]
136	XTW2+5LFJ	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10SFJ	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17FJ	PCB EARTH SCREW	[M]
139	RFKJAA4501-S	CHASSIS ASS'Y	[M]
		TRAVERSE DECK	
358	RFKNCT121157	SPINDLE MOTOR ASS'Y	[M]
358-1	RXQ0632	TRV MOTOR UNIT	[M]
358-2	XQN17+C28FJ	SCREW	[M]
359	RDG0455	TRV GEAR (A)	[M]
360	RDG0456	TRV GEAR (B)	[M]
361	RXQ0999	OPU UNIT	[M]
362	RMM0218	TRV DRIVE RACK	[M]
363	XTN2+6GFJ	SCREW	[M]
364	RMS0757-1	FIXED PIN	[M]
365	RMG0703-R	FLOATING RUBBER	[M]
366	RME0109	FLOATING SPRING	[M]
367	SNSD38-1	SCREW	[M]
368	RMRX0064	MIDDLE CHASSIS	[M]
369	RAE0157A-V	TRV UNIT W/O SERVO	[M]
		PRINTED CIRCUIT BOARD	
	REPX0494A	CD SERVO P.C.B.	[M]

	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
	REPX0516G	MAIN P.C.B.	[M]
	REPX0517B	PANEL P.C.B.	[M]
	REPX0518D	TRANSFORMER P.C.B.	[M]
	REPX0533D	POWER P.C.B.	[M]
	REPX0331E	DECK P.C.B.	[M]
	REPX0321A	DECK MECHANISM P.C.B.	[M]
	REP1999B	TUNER PACK P.C.B.	[M]
		INTEGRATED CIRCUITS	
IC951	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1001	AN7348S-E1	IC P.B. EQ/REC AMP/ALC/TPS AMP	[M]
IC1004	C1AA00000612	IC R/P SELECT	[M]
IC2601	C1BB00000962	IC FM/AM IF AMP,DET/AM OSC,MIX/FM MPX	[M]
IC2602	C1CB00001937	IC PLL FREQUENCY SYNTHESIZER	[M]
IC2801	C2CBYY000053	IC MICROPROCESSOR	[M]
IC2803	C1BB00001121	IC AUDIO SOUND PROCESSOR	[M]
IC2804	C0AABB000125	IC DUAL OP-AMP	[M]
IC5201	C0JBAB000011	IC LOGIC	[M]
IC5301	C1BA00000407	IC 2-CH DIGITAL AMP	[M]
IC5401	C1BA00000407	IC 2-CH DIGITAL AMP	[M]
IC6601	C0HBB0000057	IC FL DRIVER	[M]
IC7001	MN6627954MA	IC SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR/DIGITAL FILTER/D/A CONVERTER	[M]
IC7002	BA5948FPE2	IC 4CH DRIVE	[M]
		TRANSISTORS	
Q1	B1CECC000003	TRANSISTOR	[M]
Q2	B1AAAC000016	TRANSISTOR	[M]
Q3	B1AAAD000015	TRANSISTOR	[M]
Q4	B1AAAD000015	TRANSISTOR	[M]
Q1003	B1AAGC000007	TRANSISTOR	[M]
Q1004	B1AAGC000007	TRANSISTOR	[M]
Q1005	B1AAGC000007	TRANSISTOR	[M]
Q1007	B1ABCF000176	TRANSISTOR	[M]
Q1017	B1AARC000003	TRANSISTOR	[M]
Q2142	B1ABCF000176	TRANSISTOR	[M]
Q2242	B1ABCF000176	TRANSISTOR	[M]
Q2311	B1ABGC000005	TRANSISTOR	[M]
Q2317	B1ABGC000005	TRANSISTOR	[M]
Q2341	B1ABGC000005	TRANSISTOR	[M]
Q2411	B1ABGC000005	TRANSISTOR	[M]
Q2417	B1ABGC000005	TRANSISTOR	[M]
Q2441	B1ABGC000005	TRANSISTOR	[M]
Q2501	B1ABCF000176	TRANSISTOR	[M]
Q2511	B1GDCFJJ0047	TRANSISTOR	[M]
Q2601	B1AABC000003	TRANSISTOR	[M]
Q2606	B1GCCFJJ0016	TRANSISTOR	[M]
Q2803	B1GBCFJJ0051	TRANSISTOR	[M]
Q2901	B1ACKD000006	TRANSISTOR	[M]
Q2902	B1AACF000064	TRANSISTOR	[M]
Q2906	B1ABCF000176	TRANSISTOR	[M]
Q2907	B1ABCF000176	TRANSISTOR	[M]
Q2936	B1ACKD000006	TRANSISTOR	[M]
Q2937	B1GBCFJJ0051	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q2942	B1ACKD000006	TRANSISTOR	[M]
Q2943	B1ABCF000176	TRANSISTOR	[M]
Q2948	B1ABCF000176	TRANSISTOR	[M]
Q2949	B1ABCF000176	TRANSISTOR	[M]
Q2950	B1ACKD000006	TRANSISTOR	[M]
Q2951	B1ACKD000006	TRANSISTOR	[M]
Q2952	B1GBCFLL0037	TRANSISTOR	[M]
Q2957	B1GBCFLL0037	TRANSISTOR	[M]
Q2958	B1ACKD000006	TRANSISTOR	[M]
Q2959	B1GBCFLL0037	TRANSISTOR	[M]
Q2960	B1ACKD000006	TRANSISTOR	[M]
Q2978	B1GDCFJJ0047	TRANSISTOR	[M]
Q2980	B1GDCFJJ0047	TRANSISTOR	[M]
Q5101	B1DEGM000026	TRANSISTOR	[M]
Q5102	B1DEGM000026	TRANSISTOR	[M]
Q5103	B1ABCF000176	TRANSISTOR	[M]
Q5104	B1ABCF000176	TRANSISTOR	[M]
Q5108	B1ABCF000176	TRANSISTOR	[M]
Q5109	2SB0709AHL	TRANSISTOR	[M]
Q5110	B1AACF000064	TRANSISTOR	[M]
Q5111	B1BACG000023	TRANSISTOR	[M]
Q5112	B1BCCG000002	TRANSISTOR	[M]
Q5113	B1GDCFNA0001	TRANSISTOR	[M]
Q5114	B1ABCF000176	TRANSISTOR	[M]
Q5115	B1AAKD000014	TRANSISTOR	[M]
Q5153	B1ABCF000176	TRANSISTOR	[M]
Q5154	B1ADCF000063	TRANSISTOR	[M]
Q5173	B1ABCF000176	TRANSISTOR	[M]
Q5201	B1ABCF000176	TRANSISTOR	[M]
Q5202	B1ADCF000063	TRANSISTOR	[M]
Q5950	B1AAKD000014	TRANSISTOR	[M]
Q5951	2SB0621AHA	TRANSISTOR	[M]
Q5952	B1GACFJJ0018	TRANSISTOR	[M]
Q5953	B1AACF000064	TRANSISTOR	[M]
Q5954	B1AAGC000007	TRANSISTOR	[M]
Q6501	B1AACF000064	TRANSISTOR	[M]
Q6502	B1AACF000064	TRANSISTOR	[M]
Q7601	B1ADCF000001	TRANSISTOR	[M]
QR6457	B1GBCFLL0037	CHIP TRANSISTOR	[M]
		DIODES	
D1	B0CBAD000004	DIODE	[M]
D2	B0CBAD000004	DIODE	[M]
D3	B0CBAD000004	DIODE	[M]
D951	MA2C16500E	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1003	B0ACCK000005	DIODE	[M]
D2191	B0ACCK000005	DIODE	[M]
D2241	B0ACCK000005	DIODE	[M]
D2503	B0ADCC000002	DIODE	[M]
D2583	B0BC9R000008	DIODE	[M]
D2601	B0BC5R000009	DIODE	[M]
D2602	B0CDBB000015	DIODE	[M]
D2677	B0BC7R500001	DIODE	[M]
D2801	B0ACCK000005	DIODE	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
D2803	B0ACCK000005	DIODE	[M]
D2811	B0ADCJ000020	DIODE	[M]
D2813	B0ACCK000005	DIODE	[M]
D2901	B0ADCC000002	DIODE	[M]
D2936	B0EAKM000117	DIODE	[M]
D2946	B0ADCJ000020	DIODE	[M]
D2950	B0ACCK000005	DIODE	[M]
D5101	B0BA01100004	DIODE	[M]
D5102	B0BA02600018	DIODE	[M]
D5103	B0BA3R900006	DIODE	[M]
D5104	B0BA01100004	DIODE	[M]
D5105	B0BA02400029	DIODE	[M]
D5107	B0BA01500003	DIODE	[M]
D5108	B0BA5R700008	DIODE	[M]
D5109	B0BA01100004	DIODE	[M]
D5121	B0EAKM000122	DIODE	[M]
D5122	B0EAKM000122	DIODE	[M]
D5123	B0EAKM000122	DIODE	[M]
D5124	B0EAKM000122	DIODE	[M]
D5125	B0AACK000004	DIODE	[M]
D5126	B0ACCK000005	DIODE	[M]
D5128	B0EAKM000122	DIODE	[M]
D5129	B0EAKM000122	DIODE	[M]
D5152	B0BA01900005	DIODE	[M]
D5950	B0EAMM000038	DIODE	[M]
D5951	B0EAMM000038	DIODE	[M]
D5952	B0EAMM000038	DIODE	[M]
D5953	B0EAMM000038	DIODE	[M]
D5954	B0EAKM000122	DIODE	[M]
D5955	B0EAKM000122	DIODE	[M]
D5956	B0EAKM000122	DIODE	[M]
D5957	B0EAKM000122	DIODE	[M]
D5958	B0EAKM000122	DIODE	[M]
D5959	B0EAKM000122	DIODE	[M]
D5960	B0BA02400030	DIODE	[M]
D5961	B0AACK000004	DIODE	[M]
D5962	B0AACK000004	DIODE	[M]
D5964	B0BA6R800008	DIODE	[M]
D5965	B0AACK000004	DIODE	[M]
D5966	B0AACK000004	DIODE	[M]
D5967	B0AACK000004	DIODE	[M]
D5968	B0AACK000004	DIODE	[M]
D5969	B0AACK000004	DIODE	[M]
D6457	B3ACA0000302	DIODE	[M]
D6458	B3AAA0000583	DIODE	[M]
D6462	B3ACA0000302	DIODE	[M]
D6635	B0BC5R600003	DIODE	[M]
D7650	MAZ80560ML	DIODE	[M]
		VARIABLE RESISTORS	
VR6491	EVEKE2F3524B	VOLUME JOG	[M]
VR6511	EVUF2AF15B14	MIC VOLUME JOG	[M]
		SWITCHES	
S951	RSH1A018-3U	SW MODE	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
S952	RSH1A019-2U	SW HALF	[M]
S971	RSH1A018-3U	SW MODE	[M]
S972	RSH1A019-2U	SW HALF	[M]
S975	RSH1A019-2U	SW RECINH_F	[M]
S5950	K0ABLB000003	SW VOLTAGE SELECTOR	[M]
S6101	EVQ21405RJ	SW POWER	[M]
S6102	EVQ21405RJ	SW SINGLE DISC CHANGE	[M]
S6103	EVQ21405RJ	SW OPEN/CLOSE	[M]
S6104	EVQ21405RJ	SW CD 1	[M]
S6105	EVQ21405RJ	SW CD 2	[M]
S6106	EVQ21405RJ	SW CD 3	[M]
S6107	EVQ21405RJ	SW CD 4	[M]
S6108	EVQ21405RJ	SW CD 5	[M]
S6201	EVQ21405RJ	SW DECK 2 OPEN	[M]
S6202	EVQ21405RJ	SW DISPLAY/DEMO	[M]
S6203	EVQ21405RJ	SW DECK 1/2	[M]
S6204	EVQ21405RJ	SW H.BASS	[M]
S6205	EVQ21405RJ	SW FF	[M]
S6206	EVQ21405RJ	SW REW	[M]
S6207	EVQ21405RJ	SW DECK 1 OPEN	[M]
S6301	EVQ21405RJ	SW CD	[M]
S6302	EVQ21405RJ	SW TAPE	[M]
S6303	EVQ21405RJ	SW STOP	[M]
S6304	EVQ21405RJ	SW REC	[M]
S6305	EVQ21405RJ	SW TUNER/BAND	[M]
S6306	EVQ21405RJ	SW MUSIC PORT	[M]
S6308	EVQ21405RJ	SW MULTI DISC CHANGE	[M]
S7201	RSH1A048-A	SW RESET	[M]
		CONNECTORS	
CN971	K1MN10B00104	10P FFC CONNECTOR	[M]
CN1001	K1MN14B00058	14P FFC CONNECTOR	[M]
CN2801	K1MN17AA0004	17P CONNECTOR	[M]
CN2803	K1MN14A00049	14P FFC CONNECTOR	[M]
CN2805	K1MN14A00049	14P FFC CONNECTOR	[M]
CN2806	K1MN30AA0004	30P CONNECTOR	[M]
CN2808	K1KB12B00036	12P CONNECTOR	[M]
CN2809	K1KB12B00036	12P CONNECTOR	[M]
CN2810	K1KA02AA0186	2P FAN CONNECTOR	[M]
CN2951	K1MN10AA0003	10P FFC CONNECTOR	[M]
CN5102	K1KA12AA0424	12P CONNECTOR	[M]
CN5103	K1KA12AA0424	12P CONNECTOR	[M]
CN5950	K1KA09AA0319	9P CONNECTOR	[M]
CN5951	K1KA09AA0193	9P CONNECTOR	[M]
CN6601	K1MN30AA0004	30P CONNECTOR	[M]
CN7001	K1MN16B00154	16P CONNECTOR	[M]
CN7002	K1MN17B00032	17P CONNECTOR	[M]
CS1001	K1MN05A00039	5P CONNECTOR	[M]
CS1002	K1MN05A00039	5P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1	G0C1R2KA0029	AXIAL COIL	[M]
L2	G0CR47KA0029	RF CHOKE COIL	[M]
L1001	G0C470JA0052	RF CHOKE COIL	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
L1002	G2ZZ00000024	BIAS OCS COIL	[M]
L2601	G2A411C00001	AM COIL	[M]
L2602	G2BPC0000016	OSCILLATOR COIL	[M]
L5101	J0JKB0000037	FILTER	[M]
L5102	J0JKB0000037	FILTER	[M]
L5301	G0C220Z00002	COIL	[M]
L5401	G0C220Z00002	COIL	[M]
L5402	J0JKB0000037	FILTER	[M]
L5403	J0JKB0000037	FILTER	[M]
L5601	G0B9R5K00001	COIL	[M]
L5602	G0B9R5K00001	COIL	[M]
L5603	G0B9R5K00001	COIL	[M]
L5604	G0B9R5K00001	COIL	[M]
L6501	G0C100JA0052	INDUCTOR	[M]
L6502	G0C100JA0052	INDUCTOR	[M]
T5950	G4CYAYY00057	TRANSFORMER	[M]
T5951	RTP1H3E002	BACK-UP TRANSFORMER	[M]
		COMPONENT COMBINATION	
Z971	RGSD12A1445T	RADA RESISTOR	[M]
Z2602	G2BAD0000003	AM IFT	[M]
Z5950	ERZV10V511CS	ZENER	[M]
Z6481	B3RAB0000025	REMOTE SENSOR	[M]
		CERAMIC FILTERS	
CF2601	J0B1075AA014	FM CERAMIC FILTER	[M]
CF2602	J0B1075AA014	FM CERAMIC FILTER	[M]
		RELAY	
RL5950	K6B1AEA00015	POWER RELAY	[M]
		OSCILLATORS	
X2602	H3F1065A0002	DIELECTRIC RESONATOR	[M]
X2603	H0H720400007	CRYSTAL OSCILLATOR	[M]
X2801	H0A327200115	CRYSTAL OSCILLATOR	[M]
X2802	H2B100500004	CERAMIC RESONATOR	[M]
X5201	H2A415300001	OSCILLATOR	[M]
X5202	H2A375300003	OSCILLATOR	[M]
X7201	H2B169500005	CRYSTAL	[M]
		DISPLAY TUBE	
FL6602	A2BD00000138	FL DISPLAY	[M]
		FUSE	
F1	K5D402BLA013	FUSE 2A	[M]
F2	K5D202BLA013	FUSE	[M]
		FUSE HOLDERS	

Ref. No.	Part No.	Part Name & Description	Remarks
FC1	EYF52BCY	FUSE CLIP	[M]
FC2	EYF52BCY	FUSE CLIP	[M]
FC3	EYF52BCY	FUSE CLIP	[M]
FC4	EYF52BCY	FUSE CLIP	[M]
		FUSE PROTECTOR	
FP5920	K5G702A00009	FUSE PROTECTOR	[M]
FP5940	K5G702Z00004	FUSE PROTECTOR	[M]
FP5950	K5G402A00025	FUSE PROTECTOR	[M]
		HOLDERS	
H5104	K1YF09000001	9P WIRE HOLDER	[M]
H6555	K1YZ09000002	CABLE HOLDER	[M]
		JACKS	
JK2601	K4BC04B00105	JK ANTENNA	[M]
JK5101	K4BC04B00120	JK 4P SPEAKER	[M]
JK5102	K4BC04B00120	JK 4P SPEAKER	[M]
JK5950	K2AA2B000011	JK AC INLET	[M]
JK6501	K2HC103A0024	JK HP	[M]
JK6551	K2HC103A0024	JK HP	[M]
JK6751	K2HC1YYA0002	JK MUSIC PORT	[M]
		EARTH TERMINALS	
E5101	K4CZ01000027	EARTH LUG	[M]
E5102	K4CZ01000027	EARTH LUG	[M]
E5103	K4CZ01000027	EARTH LUG	[M]
		WIRES	
W1002	RWJ0102050CK	MAIN TO MECHA MOTOR	[M]
W5104	REXX0325	9P FLAT WIRE	[M]
W6555	REXX0324	9P FLAT WIRE	[M]
		PACKING MATERIALS	
P1	RPGX1510	PACKING CASE	[M]
P2	RPNX0347	POLYFOAM	[M]
P3	RPFX0007-1	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAHB000065	REMOTE CONTROL	[M]
A1-1	RKK-HTR0283H	R/C BATTERY COVER	[M]
A2	K2CQ2CA00002	AC CORD	[M]
A3	RQTV0070-1M	O/I BOOK (En/Sp)	[M]
A4	N1DAAAA00001	AM LOOP ANTENNA	[M]
A5	RSA0006-L	FM ANTENNA WIRE	[M]
A6	K2DA42E00001	AC PLUG ADAPTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R1	D0AE104JA048	100K 1/4W	[M]
R2	D0AE104JA048	100K 1/4W	[M]
R3	D0AE221JA048	220 1/4W	[M]
R4	D0AE104JA048	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	D0AE391JA048	390 1/4W	[M]
R7	D0AE272JA048	2.7K 1/4W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	D0AE391JA048	390 1/4W	[M]
R10	D0AE391JA048	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1002	ERJ3GEY0R00V	0 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	D0GB152JA007	1.5K 1/16W	[M]
R1005	D0GB472JA041	4.7K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]
R1009	D0GB183JA007	18K 1/16W	[M]
R1010	D0GB183JA007	18K 1/16W	[M]
R1011	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1012	D0GB472JA041	4.7K 1/16W	[M]
R1013	D0GB472JA041	4.7K 1/16W	[M]
R1014	D0GB472JA041	4.7K 1/16W	[M]
R1015	D0GB470JA008	47 1/16W	[M]
R1016	D0GB470JA008	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	D0GB392JA007	3.9K 1/16W	[M]
R1019	D0GB392JA007	3.9K 1/16W	[M]
R1020	ERJ3GEY0R00V	0 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	ERJ3GEY0R00V	0 1/16W	[M]
R1025	ERJ3GEY0R00V	0 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1027	ERJ3GEY0R00V	0 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	D0GB475JA007	4.7M 1/16W	[M]
R1030	D0GB101JA007	100 1/16W	[M]
R1031	D0GB273JA007	27K 1/16W	[M]
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1040	ERJ3GEY0R00V	0 1/16W	[M]
R1049	ERJ3GEY0R00V	0 1/16W	[M]
R1050	ERJ3GEY0R00V	0 1/16W	[M]
R1055	D0GB222JA041	2.2K 1/16W	[M]
R1057	D0GB222JA041	2.2K 1/16W	[M]
R1060	D0GB391JA041	390 1/16W	[M]
R1084	D0GB222JA041	2.2K 1/16W	[M]
R1085	D0GB473JA041	47K 1/16W	[M]
R1086	D0GB222JA041	2.2K 1/16W	[M]
R1087	D0GB473JA041	47K 1/16W	[M]
R1090	D0GB221JA041	220 1/16W	[M]
R1091	ERJ3GEY0R00V	0 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R1092	ERJ3GEY0R00V	0 1/16W	[M]
R1097	ERJ3GEYJ103V	10K 1/16W	[M]
R1098	ERJ3GEYJ103V	10K 1/16W	[M]
R1099	ERJ3GEY0R00V	0 1/16W	[M]
R1100	ERJ3GEY0R00V	0 1/16W	[M]
R1101	ERJ3GEY0R00V	0 1/16W	[M]
R1102	ERJ3GEYJ103V	10K 1/16W	[M]
R2102	D0GB332JA007	3.3K 1/16W	[M]
R2103	D0GB222JA041	2.2K 1/16W	[M]
R2104	D0GB273JA007	27K 1/16W	[M]
R2111	D0GB222JA041	2.2K 1/16W	[M]
R2112	D0GB332JA007	3.3K 1/16W	[M]
R2113	D0GB123JA007	12K 1/16W	[M]
R2121	D0GB332JA007	3.3K 1/16W	[M]
R2122	D0GB332JA007	3.3K 1/16W	[M]
R2123	D0GB273JA007	27K 1/16W	[M]
R2131	D0GB332JA007	3.3K 1/16W	[M]
R2132	D0GB333JA007	33K 1/16W	[M]
R2133	D0GB332JA007	3.3K 1/16W	[M]
R2142	D0GB332JA007	3.3K 1/16W	[M]
R2145	ERJ3GEYJ102V	1K 1/16W	[M]
R2146	ERJ3GEYJ102V	1K 1/16W	[M]
R2151	ERJ3GEY0R00V	0 1/16W	[M]
R2153	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2161	D0GB332JA007	3.3K 1/16W	[M]
R2163	D0GB563JA007	56K 1/16W	[M]
R2172	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2173	D0GB472JA041	4.7K 1/16W	[M]
R2181	D0GB471JA041	470 1/16W	[M]
R2182	ERJ3GEY0R00V	0 1/16W	[M]
R2183	ERJ3GEYJ102V	1K 1/16W	[M]
R2193	D0GB472JA041	4.7K 1/16W	[M]
R2194	D0GB104JA007	100K 1/16W	[M]
R2195	ERJ3GEYJ103V	10K 1/16W	[M]
R2196	ERJ3GEYJ103V	10K 1/16W	[M]
R2202	D0GB332JA007	3.3K 1/16W	[M]
R2203	D0GB222JA041	2.2K 1/16W	[M]
R2204	D0GB273JA007	27K 1/16W	[M]
R2211	D0GB222JA041	2.2K 1/16W	[M]
R2212	D0GB332JA007	3.3K 1/16W	[M]
R2213	D0GB123JA007	12K 1/16W	[M]
R2221	D0GB332JA007	3.3K 1/16W	[M]
R2222	D0GB332JA007	3.3K 1/16W	[M]
R2223	D0GB273JA007	27K 1/16W	[M]
R2231	D0GB332JA007	3.3K 1/16W	[M]
R2232	D0GB333JA007	33K 1/16W	[M]
R2233	D0GB332JA007	3.3K 1/16W	[M]
R2242	D0GB332JA007	3.3K 1/16W	[M]
R2245	ERJ3GEYJ102V	1K 1/16W	[M]
R2246	ERJ3GEYJ102V	1K 1/16W	[M]
R2247	D0GB104JA007	100K 1/16W	[M]
R2248	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2251	ERJ3GEY0R00V	0 1/16W	[M]
R2253	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2261	D0GB472JA041	4.7K 1/16W	[M]
R2271	D0GB472JA041	4.7K 1/16W	[M]
R2273	D0GB472JA041	4.7K 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R2281	D0GB471JA041	470 1/16W	[M]
R2282	ERJ3GEY0R00V	0 1/16W	[M]
R2283	D0GB104JA007	100K 1/16W	[M]
R2301	D0GB153JA007	15K 1/16W	[M]
R2311	D0GB471JA041	470 1/16W	[M]
R2312	ERJ3GEYJ103V	10K 1/16W	[M]
R2313	D0GB104JA007	100K 1/16W	[M]
R2314	ERJ3GEY0R00V	0 1/16W	[M]
R2315	D0GB563JA007	56K 1/16W	[M]
R2316	D0GB222JA041	2.2K 1/16W	[M]
R2317	ERJ3GEYJ103V	10K 1/16W	[M]
R2318	D0GB104JA007	100K 1/16W	[M]
R2321	ERJ3GEY0R00V	0 1/16W	[M]
R2323	D0GB393JA007	39K 1/16W	[M]
R2326	ERJ3GEY0R00V	0 1/16W	[M]
R2328	D0GB153JA007	15K 1/16W	[M]
R2329	D0GB332JA007	3.3K 1/16W	[M]
R2331	ERJ3GEY0R00V	0 1/16W	[M]
R2333	D0GB153JA007	15K 1/16W	[M]
R2334	ERJ3GEY0R00V	0 1/16W	[M]
R2335	ERJ3GEYJ102V	1K 1/16W	[M]
R2341	D0GB270JA007	27 1/16W	[M]
R2342	ERJ3GEY0R00V	0 1/16W	[M]
R2343	D0GB270JA007	27 1/16W	[M]
R2344	ERJ3GEY0R00V	0 1/16W	[M]
R2345	D0GB152JA007	1.5K 1/16W	[M]
R2346	D0GB332JA007	3.3K 1/16W	[M]
R2347	D0GB1R0JA007	1 1/16W	[M]
R2351	ERJ3GEY0R00V	0 1/16W	[M]
R2352	D0GB270JA007	27 1/16W	[M]
R2353	ERJ3GEY0R00V	0 1/16W	[M]
R2354	D0GB270JA007	27 1/16W	[M]
R2355	D0GB274JA007	270K 1/16W	[M]
R2356	D0GB184JA007	180K 1/16W	[M]
R2357	D0GB104JA007	100K 1/16W	[M]
R2401	D0GB153JA007	15K 1/16W	[M]
R2411	D0GB471JA041	470 1/16W	[M]
R2412	ERJ3GEYJ103V	10K 1/16W	[M]
R2413	D0GB104JA007	100K 1/16W	[M]
R2414	ERJ3GEY0R00V	0 1/16W	[M]
R2415	D0GB563JA007	56K 1/16W	[M]
R2416	D0GB222JA041	2.2K 1/16W	[M]
R2417	ERJ3GEYJ103V	10K 1/16W	[M]
R2418	D0GB104JA007	100K 1/16W	[M]
R2421	ERJ3GEY0R00V	0 1/16W	[M]
R2423	D0GB393JA007	39K 1/16W	[M]
R2426	ERJ3GEY0R00V	0 1/16W	[M]
R2428	D0GB153JA007	15K 1/16W	[M]
R2429	D0GB332JA007	3.3K 1/16W	[M]
R2430	ERJ3GEY0R00V	0 1/16W	[M]
R2431	ERJ3GEY0R00V	0 1/16W	[M]
R2433	D0GB153JA007	15K 1/16W	[M]
R2434	ERJ3GEY0R00V	0 1/16W	[M]
R2435	ERJ3GEYJ102V	1K 1/16W	[M]
R2441	D0GB270JA007	27 1/16W	[M]
R2442	ERJ3GEY0R00V	0 1/16W	[M]
R2443	D0GB270JA007	27 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R2444	ERJ3GEY0R00V	0 1/16W	[M]
R2445	D0GB152JA007	1.5K 1/16W	[M]
R2446	D0GB332JA007	3.3K 1/16W	[M]
R2447	D0GB1R0JA007	1 1/16W	[M]
R2451	ERJ3GEY0R00V	0 1/16W	[M]
R2452	D0GB270JA007	27 1/16W	[M]
R2453	ERJ3GEY0R00V	0 1/16W	[M]
R2454	D0GB270JA007	27 1/16W	[M]
R2455	D0GB274JA007	270K 1/16W	[M]
R2456	D0GB184JA007	180K 1/16W	[M]
R2457	D0GB104JA007	100K 1/16W	[M]
R2501	D0GB334JA007	330K 1/16W	[M]
R2502	D0GB823JA007	82K 1/16W	[M]
R2503	D0GB272JA007	2.7K 1/16W	[M]
R2504	D0GB101JA007	100 1/16W	[M]
R2505	ERJ3GEY0R00V	0 1/16W	[M]
R2507	D0GB104JA007	100K 1/16W	[M]
R2508	ERJ3GEYJ102V	1K 1/16W	[M]
R2509	D0GB561JA007	560 1/16W	[M]
R2510	D0AF221JA039	220 1/4W	[M]
R2511	D0GB222JA041	2.2K 1/16W	[M]
R2512	D0GB104JA007	100K 1/16W	[M]
R2584	D0GB334JA007	330K 1/16W	[M]
R2585	D0GB334JA007	330K 1/16W	[M]
R2586	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2587	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2601	ERJ3GEY0R00V	0 1/16W	[M]
R2602	D0GB472JA041	4.7K 1/16W	[M]
R2603	D0GB271JA007	270 1/16W	[M]
R2604	ERJ3GEYJ102V	1K 1/16W	[M]
R2605	D0GB471JA041	470 1/16W	[M]
R2606	D0GB474JA041	470K 1/16W	[M]
R2607	D0GB331JA007	330 1/16W	[M]
R2608	D0GB474JA041	470K 1/16W	[M]
R2610	ERJ3GEYJ102V	1K 1/16W	[M]
R2611	D0GB391JA041	390 1/16W	[M]
R2612	D0GB104JA007	100K 1/16W	[M]
R2613	ERJ3GEYJ103V	10K 1/16W	[M]
R2614	D0GB562JA007	5.6K 1/16W	[M]
R2615	D0GB561JA007	560 1/16W	[M]
R2616	ERJ3GEYJ102V	1K 1/16W	[M]
R2617	D0GB473JA041	47K 1/16W	[M]
R2618	D0GB332JA007	3.3K 1/16W	[M]
R2619	D0GB332JA007	3.3K 1/16W	[M]
R2620	D0GB473JA041	47K 1/16W	[M]
R2621	D0GB223JA041	22K 1/16W	[M]
R2622	D0GB272JA007	2.7K 1/16W	[M]
R2623	D0GB683JA007	68K 1/16W	[M]
R2624	D0GB330JA007	33 1/16W	[M]
R2625	D0GB471JA041	470 1/16W	[M]
R2626	ERJ3GEYJ102V	1K 1/16W	[M]
R2627	D0GB471JA041	470 1/16W	[M]
R2628	ERJ3GEYJ820V	82 1/16W	[M]
R2629	D0GB273JA007	27K 1/16W	[M]
R2630	ERJ3GEYJ103V	10K 1/16W	[M]
R2631	D0GB121JA007	120 1/16W	[M]
R2632	ERJ3GEYJ103V	10K 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R2633	ERJ3GEYJ102V	1K 1/16W	[M]
R2634	D0GB471JA041	470 1/16W	[M]
R2635	ERJ3GEYJ102V	1K 1/16W	[M]
R2636	ERJ3GEYJ102V	1K 1/16W	[M]
R2637	ERJ3GEYJ102V	1K 1/16W	[M]
R2638	D0GB332JA007	3.3K 1/16W	[M]
R2641	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2642	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2643	D0GB223JA041	22K 1/16W	[M]
R2644	D0GB121JA007	120 1/16W	[M]
R2645	D0GB104JA007	100K 1/16W	[M]
R2646	D0GB104JA007	100K 1/16W	[M]
R2651	ERJ3GEYJ820V	82 1/16W	[M]
R2652	ERJ3GEY0R00V	0 1/16W	[M]
R2671	ERJ3GEYJ103V	10K 1/16W	[M]
R2672	ERJ3GEYJ103V	10K 1/16W	[M]
R2673	D0GB473JA041	47K 1/16W	[M]
R2674	D0GB473JA041	47K 1/16W	[M]
R2675	D0GB472JA041	4.7K 1/16W	[M]
R2676	ERJ3GEYJ103V	10K 1/16W	[M]
R2677	D0C1121JA020	120 1W	[M]
R2701	ERJ3GEYJ102V	1K 1/16W	[M]
R2702	ERJ3GEYJ102V	1K 1/16W	[M]
R2703	D0GB224JA007	220K 1/16W	[M]
R2704	D0GB224JA007	220K 1/16W	[M]
R2705	D0GB332JA007	3.3K 1/16W	[M]
R2706	D0GB332JA007	3.3K 1/16W	[M]
R2801	ERJ3GEYJ103V	10K 1/16W	[M]
R2802	D0GB101JA007	100 1/16W	[M]
R2803	ERJ3GEYJ103V	10K 1/16W	[M]
R2807	D0GB104JA007	100K 1/16W	[M]
R2810	D0GB223JA041	22K 1/16W	[M]
R2817	D0GB104JA007	100K 1/16W	[M]
R2818	D0GB104JA007	100K 1/16W	[M]
R2819	D0GB104JA007	100K 1/16W	[M]
R2820	D0GB104JA007	100K 1/16W	[M]
R2823	ERJ3GEYJ103V	10K 1/16W	[M]
R2827	ERJ3GEYJ103V	10K 1/16W	[M]
R2830	D0GB104JA007	100K 1/16W	[M]
R2831	D0GB104JA007	100K 1/16W	[M]
R2832	D0GB104JA007	100K 1/16W	[M]
R2833	D0GB104JA007	100K 1/16W	[M]
R2841	ERJ3GEYJ103V	10K 1/16W	[M]
R2842	ERJ3GEYJ103V	10K 1/16W	[M]
R2843	ERJ3GEYJ102V	1K 1/16W	[M]
R2844	ERJ3GEYJ103V	10K 1/16W	[M]
R2845	ERJ3GEYJ103V	10K 1/16W	[M]
R2846	D0GB472JA041	4.7K 1/16W	[M]
R2847	D0GB101JA007	100 1/16W	[M]
R2848	D0GB101JA007	100 1/16W	[M]
R2849	ERJ3GEYJ102V	1K 1/16W	[M]
R2851	D0GB473JA041	47K 1/16W	[M]
R2852	D0GB101JA007	100 1/16W	[M]
R2853	D0GB101JA007	100 1/16W	[M]
R2854	D0GB473JA041	47K 1/16W	[M]
R2855	D0GB473JA041	47K 1/16W	[M]
R2856	D0GB473JA041	47K 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R2857	D0GB473JA041	47K 1/16W	[M]
R2858	D0GB101JA007	100 1/16W	[M]
R2859	D0GB101JA007	100 1/16W	[M]
R2860	D0GB101JA007	100 1/16W	[M]
R2861	D0GB101JA007	100 1/16W	[M]
R2862	D0GB101JA007	100 1/16W	[M]
R2863	D0GB473JA041	47K 1/16W	[M]
R2864	D0GB101JA007	100 1/16W	[M]
R2865	D0GB473JA041	47K 1/16W	[M]
R2866	D0GB473JA041	47K 1/16W	[M]
R2867	D0GB104JA007	100K 1/16W	[M]
R2871	D0GB223JA041	22K 1/16W	[M]
R2873	D0GB223JA041	22K 1/16W	[M]
R2874	D0GB472JA041	4.7K 1/16W	[M]
R2881	D0GB221JA041	220 1/16W	[M]
R2882	D0GB106JA007	10M 1/16W	[M]
R2883	D0GB334JA007	330K 1/16W	[M]
R2886	D0GB105JA007	1M 1/16W	[M]
R2894	D0GB473JA041	47K 1/16W	[M]
R2901	ERJ3GEYJ103V	10K 1/16W	[M]
R2902	ERDS1FVJ330T	33 1/2W	[M]
R2907	ERJ3GEYJ102V	1K 1/16W	[M]
R2908	D0GB331JA007	330 1/16W	[M]
R2909	D0GB222JA041	2.2K 1/16W	[M]
R2910	D0GB331JA007	330 1/16W	[M]
R2912	D0GB472JA041	4.7K 1/16W	[M]
R2914	D0GB472JA041	4.7K 1/16W	[M]
R2916	D0GB472JA041	4.7K 1/16W	[M]
R2918	ERJ3GEYJ103V	10K 1/16W	[M]
R2919	D0GB472JA041	4.7K 1/16W	[M]
R2920	D0GB472JA041	4.7K 1/16W	[M]
R2921	D0GB472JA041	4.7K 1/16W	[M]
R2922	ERJ3GEYJ103V	10K 1/16W	[M]
R2923	ERJ3GEY0R00V	0 1/16W	[M]
R2924	ERJ3GEYJ103V	10K 1/16W	[M]
R2925	D0GB472JA041	4.7K 1/16W	[M]
R2927	D0GB472JA041	4.7K 1/16W	[M]
R2928	ERJ3GEYJ103V	10K 1/16W	[M]
R2929	ERJ3GEYJ103V	10K 1/16W	[M]
R2930	ERJ3GEYJ103V	10K 1/16W	[M]
R2931	ERJ3GEYJ103V	10K 1/16W	[M]
R2936	ERJ3GEYJ102V	1K 1/16W	[M]
R2937	ERJ3GEYJ103V	10K 1/16W	[M]
R2939	D0GB473JA041	47K 1/16W	[M]
R2940	ERJ3GEYJ824V	820K 1/16W	[M]
R2941	ERJ3GEYJ103V	10K 1/16W	[M]
R2942	D0GB562JA007	5.6K 1/16W	[M]
R2943	ERJ3GEYJ103V	10K 1/16W	[M]
R2944	D0GB472JA041	4.7K 1/16W	[M]
R2945	ERJ3GEYJ103V	10K 1/16W	[M]
R2946	D0GB563JA007	56K 1/16W	[M]
R2947	D0AF270JA039	27 1/4W	[M]
R2948	D0GB101JA007	100 1/16W	[M]
R2949	D0GB473JA041	47K 1/16W	[M]
R2950	D0GB474JA041	470K 1/16W	[M]
R2951	D0GB474JA041	470K 1/16W	[M]
R2952	ERJ3GEYJ102V	1K 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R2953	ERJ3GEYJ103V	10K 1/16W	[M]
R2954	ERJ3GEYJ103V	10K 1/16W	[M]
R2955	D0GB274JA007	270K 1/16W	[M]
R2956	D0GB274JA007	270K 1/16W	[M]
R2957	ERJ3GEYJ102V	1K 1/16W	[M]
R2958	D0GB223JA041	22K 1/16W	[M]
R2959	ERJ3GEYJ102V	1K 1/16W	[M]
R2960	D0GB223JA041	22K 1/16W	[M]
R2965	D0GB472JA041	4.7K 1/16W	[M]
R2966	D0GB472JA041	4.7K 1/16W	[M]
R5101	ERJ3GEYJ103V	10K 1/16W	[M]
R5103	D0C1103JA020	10K 1W	[M]
R5105	ERJ3GEYJ103V	10K 1/16W	[M]
R5106	D0GB223JA041	22K 1/16W	[M]
R5107	D0GB561JA007	560 1/16W	[M]
R5108	D0GB470JA008	47 1/16W	[M]
R5109	ERJ3GEYJ102V	1K 1/16W	[M]
R5110	D0GB222JA041	2.2K 1/16W	[M]
R5111	D0GB104JA007	100K 1/16W	[M]
R5112	D0GB473JA041	47K 1/16W	[M]
R5113	D0GB473JA041	47K 1/16W	[M]
R5114	ERJ3GEYJ1R8V	1.8 1/16W	[M]
R5123	D0C14R7JA020	4.7 1W	[M]
R5126	ERJ3GEYJ102V	1K 1/16W	[M]
R5127	D0GB471JA041	470 1/16W	[M]
R5130	D0GB151JA007	150 1/16W	[M]
R5131	ERDS1FVJ222T	2.2K 1/2W	[M]
R5132	D0AF331JA039	330 1/4W	[M]
R5133	ERJ3GEYJ103V	10K 1/16W	[M]
R5134	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5135	D0AE2R2JA048	2.2 1/4W	[M]
R5136	D0AE2R2JA048	2.2 1/4W	[M]
R5137	D0AE2R2JA048	2.2 1/4W	[M]
R5138	ERJ8GEYJ100V	10 1/8W	[M]
R5139	ERJ8GEYJ100V	10 1/8W	[M]
R5140	ERJ8GEYJ100V	10 1/8W	[M]
R5141	ERJ8GEYJ100V	10 1/8W	[M]
R5144	D0AF120JA039	12 1/4W	[M]
R5146	D0GB562JA007	5.6K 1/16W	[M]
R5147	D0AF2R2JA039	2.2 1/4W	[M]
R5148	D0GB562JA007	5.6K 1/16W	[M]
R5149	ERJ3GEYJ102V	1K 1/16W	[M]
R5150	D0GB224JA007	220K 1/16W	[M]
R5151	D0GB154JA007	150K 1/16W	[M]
R5152	ERJ3GEY0R00V	0 1/16W	[M]
R5153	D0GB101JA007	100 1/16W	[M]
R5154	D0GB101JA007	100 1/16W	[M]
R5173	ERJ3GEYJ102V	1K 1/16W	[M]
R5174	ERJ3GEY0R00V	0 1/16W	[M]
R5201	ERJ3GEYJ102V	1K 1/16W	[M]
R5202	D0GB104JA007	100K 1/16W	[M]
R5203	ERJ3GEYJ103V	10K 1/16W	[M]
R5204	D0GB104JA007	100K 1/16W	[M]
R5205	D0GB104JA007	100K 1/16W	[M]
R5206	D0GB105JA007	1M 1/16W	[M]
R5207	ERJ3GEYJ682V	6.8K 1/16W	[M]
R5209	D0GB100JA007	10 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R5210	D0GB271JA007	270 1/16W	[M]
R5301	D0GB562JA007	5.6K 1/16W	[M]
R5302	D0GB562JA007	5.6K 1/16W	[M]
R5303	D0GB562JA007	5.6K 1/16W	[M]
R5304	D0GB562JA007	5.6K 1/16W	[M]
R5305	ERG1SJ220E	22 1W	[M]
R5306	ERG1SJ220E	22 1W	[M]
R5307	ERJ8GEYJ100V	10 1/8W	[M]
R5308	ERJ8GEYJ100V	10 1/8W	[M]
R5312	D0GB563JA007	56K 1/16W	[M]
R5313	D0GB154JA007	150K 1/16W	[M]
R5317	ERJ3GEYJ103V	10K 1/16W	[M]
R5401	D0GB562JA007	5.6K 1/16W	[M]
R5402	D0GB562JA007	5.6K 1/16W	[M]
R5403	D0GB562JA007	5.6K 1/16W	[M]
R5404	D0GB562JA007	5.6K 1/16W	[M]
R5405	ERG1SJ220E	22 1W	[M]
R5406	ERG1SJ220E	22 1W	[M]
R5407	ERJ8GEYJ100V	10 1/8W	[M]
R5408	ERJ8GEYJ100V	10 1/8W	[M]
R5412	D0GB224JA007	220K 1/16W	[M]
R5413	D0GB104JA007	100K 1/16W	[M]
R5417	ERJ3GEYJ103V	10K 1/16W	[M]
R5418	ERJ3GEY0R00V	0 1/16W	[M]
R5419	ERJ3GEY0R00V	0 1/16W	[M]
R5514	ERJ3GEY0R00V	0 1/16W	[M]
R5518	ERJ3GEYJ103V	10K 1/16W	[M]
R5951	D0AE332JA048	3.3K 1/4W	[M]
R5952	D0AE472JA048	4.7K 1/4W	[M]
R5954	D0AE824JA048	820K 1/4W	[M]
R5957	D0AE103JA048	10K 1/4W	[M]
R5958	D0AE103JA048	10K 1/4W	[M]
R5960	D0AE472JA048	4.7K 1/4W	[M]
R5961	D0AE151JA048	150 1/4W	[M]
R5963	D0AF820JA039	82 1/4W	[M]
R6102	ERJ3GEYJ102V	1K 1/16W	[M]
R6103	D0GB222JA041	2.2K 1/16W	[M]
R6104	D0GB182JA007	1.8K 1/16W	[M]
R6105	D0GB222JA041	2.2K 1/16W	[M]
R6106	D0GB272JA007	2.7K 1/16W	[M]
R6107	D0GB472JA041	4.7K 1/16W	[M]
R6108	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6109	ERJ3GEYJ103V	10K 1/16W	[M]
R6110	D0GB223JA041	22K 1/16W	[M]
R6199	ERJ3GEYJ103V	10K 1/16W	[M]
R6202	ERJ3GEYJ102V	1K 1/16W	[M]
R6203	D0GB222JA041	2.2K 1/16W	[M]
R6204	D0GB182JA007	1.8K 1/16W	[M]
R6205	D0GB222JA041	2.2K 1/16W	[M]
R6206	D0GB272JA007	2.7K 1/16W	[M]
R6207	D0GB472JA041	4.7K 1/16W	[M]
R6208	D0GB393JA007	39K 1/16W	[M]
R6302	ERJ3GEYJ102V	1K 1/16W	[M]
R6303	D0GB222JA041	2.2K 1/16W	[M]
R6304	D0GB182JA007	1.8K 1/16W	[M]
R6305	D0GB222JA041	2.2K 1/16W	[M]
R6306	D0GB272JA007	2.7K 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
R6307	D0GB472JA041	4.7K 1/16W	[M]
R6308	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6309	ERJ3GEYJ103V	10K 1/16W	[M]
R6310	D0GB223JA041	22K 1/16W	[M]
R6399	ERJ3GEYJ103V	10K 1/16W	[M]
R6457	D0GB391JA041	390 1/16W	[M]
R6458	D0GB472JA041	4.7K 1/16W	[M]
R6481	ERJ3GEY0R00V	0 1/16W	[M]
R6491	D0GB473JA041	47K 1/16W	[M]
R6492	D0GB473JA041	47K 1/16W	[M]
R6493	ERJ3GEYJ103V	10K 1/16W	[M]
R6501	D0GB561JA007	560 1/16W	[M]
R6502	D0GB334JA007	330K 1/16W	[M]
R6503	D0GB330JA007	33 1/16W	[M]
R6504	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6505	D0GB334JA007	330K 1/16W	[M]
R6506	D0GB222JA041	2.2K 1/16W	[M]
R6507	ERJ3GEYJ102V	1K 1/16W	[M]
R6509	D0GB101JA007	100 1/16W	[M]
R6601	D0GB471JA041	470 1/16W	[M]
R6603	D0GB221JA041	220 1/16W	[M]
R6604	D0GB221JA041	220 1/16W	[M]
R6605	D0GB823JA007	82K 1/16W	[M]
R6631	ERD2FCVG470T	47 1/4W	[M]
R6632	ERD2FCVG470T	47 1/4W	[M]
R6751	D0GB332JA007	3.3K 1/16W	[M]
R6752	D0GB152JA007	1.5K 1/16W	[M]
R6753	D0GB332JA007	3.3K 1/16W	[M]
R6754	D0GB152JA007	1.5K 1/16W	[M]
R7111	ERJ3GEYJ103V	10K 1/16W	[M]
R7211	ERJ3GEYJ823V	82K 1/16W	[M]
R7212	ERJ3GEYJ821V	820 1/16W	[M]
R7214	ERJ3GEYJ471V	470 1/16W	[M]
R7217	ERJ3GEYJ102V	1K 1/16W	[M]
R7218	ERJ3GEYJ102V	1K 1/16W	[M]
R7220	ERJ3GEYJ105V	1M 1/16W	[M]
R7221	ERJ3GEYJ101V	100 1/16W	[M]
R7253	ERJ3GEYJ100V	10 1/16W	[M]
R7254	ERJ3GEYJ102V	1K 1/16W	[M]
R7315	ERJ3GEYJ332V	3.3K 1/16W	[M]
R7323	ERJ3GEYJ332V	3.3K 1/16W	[M]
R7325	ERJ3GEYJ331V	330 1/16W	[M]
R7327	ERJ3GEYJ102V	1K 1/16W	[M]
R7328	ERJ3GEYJ103V	10K 1/16W	[M]
R7329	ERJ3GEYJ102V	1K 1/16W	[M]
R7330	ERJ3GEYJ562V	5.6K 1/16W	[M]
R7331	ERJ3GEYJ223V	22K 1/16W	[M]
R7332	ERJ3GEYJ102V	1K 1/16W	[M]
R7335	ERJ3GEYJ101V	100 1/16W	[M]
R7336	ERJ3GEYJ100V	10 1/16W	[M]
R7339	ERJ3GEYJ102V	1K 1/16W	[M]
R7349	ERJ3GEYJ183V	18K 1/16W	[M]
R7601	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R7650	ERJ3GEYJ5R6V	5.6 1/16W	[M]
		CHIP JUMPERS	

Ref. No.	Part No.	Part Name & Description	Remarks
W2501	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2503	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2506	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2508	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2510	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2511	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2512	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2513	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2514	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2517	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2518	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2520	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2523	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2525	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2526	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2530	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2531	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2532	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2534	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2535	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2536	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2537	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2539	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2540	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2542	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2543	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2544	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2545	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2546	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2547	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2548	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2549	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2550	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2552	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2553	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2554	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2555	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2556	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2557	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2558	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2559	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2560	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2561	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2563	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2565	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2566	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2567	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2568	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2569	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2570	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2571	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2572	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2573	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2575	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2576	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2577	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2919	ERJ3GEY0R00V	CHIP JUMPER	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
W5501	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5504	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5505	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5506	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5507	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5508	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5509	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5511	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6501	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6502	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6503	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6504	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6505	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7001	ERJ6GEY0R00V	CHIP JUMPER	[M]
W7002	ERJ6GEY0R00V	CHIP JUMPER	[M]
W7003	ERJ6GEY0R00V	CHIP JUMPER	[M]
W7004	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7005	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7006	ERJ6GEY0R00V	CHIP JUMPER	[M]
W7007	ERJ6GEY0R00V	CHIP JUMPER	[M]
W7008	ERJ6GEY0R00V	CHIP JUMPER	[M]
W7009	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7010	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7011	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7012	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7013	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7014	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7015	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7016	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7017	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7018	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7019	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7020	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7021	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7022	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7023	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7024	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7025	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7026	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7027	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7028	ERJ3GEY0R00V	CHIP JUMPER	[M]
K5101	B0EAKM000122	RECTIFIER	[M]
K6104	ERJ3GEY0R00V	RECTIFIER	[M]
		CAPACITORS	
C1	F1D1H5R6A017	5.6P 50V	[M]
C2	F1D1H102A029	1000P 50V	[M]
C3	F1D1H2R2A017	2.2P 50V	[M]
C4	F1D1H181A012	180P 50V	[M]
C5	F1D1H5R6A017	5.6P 50V	[M]
C6	F1D1H3R3A017	3.3P 50V	[M]
C7	F1D1H4R7A017	4.7P 50V	[M]
C8	F1D1H3R3A017	3.3P 50V	[M]
C9	F1D1H2R2A017	2.2P 50V	[M]
C10	F1D1H180A015	18P 50V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C11	F1D1H102A029	1000P 50V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1006	ECA1HAK010XB	1 50V	[M]
C1007	F0A2A472A034	4700P 100V	[M]
C1008	ECA1HAK010XB	1 50V	[M]
C1009	ECA1CAK470XB	47 16V	[M]
C1010	ECA1EAM101XB	100 25V	[M]
C1011	ECQV1H473JL3	0.047 50V	[M]
C1012	F1H1H102A219	1000P 50V	[M]
C1013	F1H1H102A219	1000P 50V	[M]
C1014	F1H1H102A219	1000P 50V	[M]
C1015	F1H1H102A219	1000P 50V	[M]
C1016	F1H1H222A013	2200P 50V	[M]
C1017	F1H1H222A013	2200P 50V	[M]
C1018	F1H1H332A013	3300P 50V	[M]
C1019	F1H1H102A219	1000P 50V	[M]
C1020	F1H1H471A219	470P 50V	[M]
C1021	F1H1H471A219	470P 50V	[M]
C1022	F1H1H102A219	1000P 50V	[M]
C1023	F1H1H102A219	1000P 50V	[M]
C1026	ECA0JAK470XB	47 6.3V	[M]
C1027	F1H1H102A219	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECEA1AKA101B	100 10V	[M]
C1032	F1C1C183A023	0.018 16V	[M]
C1033	F1C1C183A023	0.018 16V	[M]
C1034	ECA1HAK3R3XB	3.3 50V	[M]
C1035	ECA1HAK3R3XB	3.3 50V	[M]
C1036	F1H1C333A071	0.033 16V	[M]
C1037	ECA1HAK3R3XB	3.3 50V	[M]
C1038	F1H1H221A748	220P 50V	[M]
C1039	F1H1H221A748	220P 50V	[M]
C1040	ECA1CAK100XB	10 16V	[M]
C1041	ECA1CAK100XB	10 16V	[M]
C1042	ECA1CAK220XB	22 16V	[M]
C1043	ECA1HAK4R7XB	4.7 50V	[M]
C1044	ECA1AAK330XB	33 10V	[M]
C1045	ECA1AAK220XB	22 10V	[M]
C1046	ECA1CAM221XB	220 16V	[M]
C1049	F1H1H332A013	3300P 50V	[M]
C1050	F1H1H332A013	3300P 50V	[M]
C1056	ECA1CAK100XB	10 16V	[M]
C1057	F1H1H102A219	1000P 50V	[M]
C1058	F1H1H102A219	1000P 50V	[M]
C1059	F1H1H103A219	0.01 50V	[M]
C2101	ECJ1VB1A105K	1 10V	[M]
C2112	ECJ1VB1C105K	1 16V	[M]
C2113	F1H1H103A219	0.01 50V	[M]
C2114	ECJ1VB1C105K	1 16V	[M]
C2121	F1H1H332A013	3300P 50V	[M]
C2122	ECJ1VB1C105K	1 16V	[M]
C2124	ECJ1VB1C105K	1 16V	[M]
C2131	ERJ3GEY0R00V	0 1/16W	[M]
C2132	ECJ1VB1C105K	1 16V	[M]
C2134	ECJ1VB1C105K	1 16V	[M]
C2142	ECJ1VB1C105K	1 16V	[M]
C2144	ECJ1VB1C105K	1 16V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C2152	ECJ1VB1C105K	1 16V	[M]
C2154	ECJ1VB1C105K	1 16V	[M]
C2161	F1H1H103A219	0.01 50V	[M]
C2171	F1H1C104A041	0.1 16V	[M]
C2172	ECJ1VB1H104K	0.1 50V	[M]
C2173	F1H1H103A219	0.01 50V	[M]
C2174	F1H1H103A219	0.01 50V	[M]
C2175	F1H1H332A013	3300P 50V	[M]
C2181	ECJ1VB1A105K	1 10V	[M]
C2182	F1H1A105A025	1 10V	[M]
C2183	ECJ1VB1C224K	0.22 16V	[M]
C2191	ECA1HAK4R7XB	4.7 50V	[M]
C2192	F1H1C104A041	0.1 16V	[M]
C2193	ECJ1VB1A105K	1 10V	[M]
C2194	F1H1A154A001	0.15 10V	[M]
C2195	ECJ1VB1A474K	0.47 10V	[M]
C2201	ECJ1VB1A105K	1 10V	[M]
C2212	ECJ1VB1C105K	1 16V	[M]
C2213	F1H1H103A219	0.01 50V	[M]
C2214	ECJ1VB1C105K	1 16V	[M]
C2221	F1H1H332A013	3300P 50V	[M]
C2222	ECJ1VB1C105K	1 16V	[M]
C2224	ECJ1VB1C105K	1 16V	[M]
C2231	ERJ3GEY0R00V	0 1/16W	[M]
C2232	ECJ1VB1C105K	1 16V	[M]
C2234	ECJ1VB1C105K	1 16V	[M]
C2242	ECJ1VB1C105K	1 16V	[M]
C2244	ECJ1VB1C105K	1 16V	[M]
C2245	ECA1CAK100XB	10 16V	[M]
C2252	ECJ1VB1C105K	1 16V	[M]
C2254	ECJ1VB1C105K	1 16V	[M]
C2261	F1H1H103A219	0.01 50V	[M]
C2263	ECA1HAK010XB	1 50V	[M]
C2271	F1H1A154A001	0.15 10V	[M]
C2272	F1H1A154A001	0.15 10V	[M]
C2273	F1H1H103A219	0.01 50V	[M]
C2274	F1H1H103A219	0.01 50V	[M]
C2275	F1H1H332A013	3300P 50V	[M]
C2281	ECJ1VB1A105K	1 10V	[M]
C2282	F1H1A105A025	1 10V	[M]
C2283	ECJ1VB1H473K	0.047 50V	[M]
C2301	ECJ1VB1A224K	0.22 10V	[M]
C2302	ECJ1VB1A224K	0.22 10V	[M]
C2311	ECJ1VB1A105K	1 10V	[M]
C2312	ECJ1VB1A105K	1 10V	[M]
C2313	F1H1H470A230	47P 50V	[M]
C2314	ECJ1VC1H100D	10P 50V	[M]
C2315	ECA1CAK220XB	22 16V	[M]
C2321	ECJ1VB1A105K	1 10V	[M]
C2323	ECJ1VB1H153K	0.015 50V	[M]
C2325	ECA1CAK100XB	10 16V	[M]
C2331	ECJ1VB1H472K	4700P 50V	[M]
C2333	ECJ1VB1A105K	1 10V	[M]
C2341	F1H1H102A219	1000P 50V	[M]
C2342	ECJ1VB1A105K	1 10V	[M]
C2343	ECJ1VB1A474K	0.47 10V	[M]
C2344	ECJ1VB1A474K	0.47 10V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C2401	ECJ1VB1A224K	0.22 10V	[M]
C2402	ECJ1VB1A224K	0.22 10V	[M]
C2411	ECJ1VB1A105K	1 10V	[M]
C2412	ECJ1VB1A105K	1 10V	[M]
C2413	F1H1H470A230	47P 50V	[M]
C2414	ECJ1VC1H100D	10P 50V	[M]
C2415	ECA1CAK220XB	22 16V	[M]
C2421	ECJ1VB1A105K	1 10V	[M]
C2423	ECJ1VB1H153K	0.015 50V	[M]
C2425	ECA1CAK100XB	10 16V	[M]
C2431	ECJ1VB1H472K	4700P 50V	[M]
C2433	ECJ1VB1A105K	1 10V	[M]
C2441	F1H1H102A219	1000P 50V	[M]
C2442	ECJ1VB1A105K	1 10V	[M]
C2443	ECJ1VB1A474K	0.47 10V	[M]
C2444	ECJ1VB1A474K	0.47 10V	[M]
C2501	ECJ1VB1A105K	1 10V	[M]
C2503	ECJ1VB1A105K	1 10V	[M]
C2507	ECJ1VB1C224K	0.22 16V	[M]
C2509	ECA1CAK330XB	33 16V	[M]
C2511	ECEA1HKN2R2B	2.2 50V	[M]
C2581	ECA1CAK101XB	100 16V	[M]
C2582	ECA1CAK101XB	100 16V	[M]
C2583	ECA1CAK101XB	100 16V	[M]
C2584	F1H1H221A748	220P 50V	[M]
C2585	F1H1H221A748	220P 50V	[M]
C2588	F1H1C104A041	0.1 16V	[M]
C2601	F1H1H103A219	0.01 50V	[M]
C2602	ECA1CAK100XB	10 16V	[M]
C2603	F1H1H103A219	0.01 50V	[M]
C2604	F1H1H102A219	1000P 50V	[M]
C2606	F1H1H102A219	1000P 50V	[M]
C2607	ECJ1VB1E473K	0.047 25V	[M]
C2608	ECJ1VC1H080D	8P 50V	[M]
C2609	F1H1H102A219	1000P 50V	[M]
C2610	F1H1H103A219	0.01 50V	[M]
C2611	ECA1HAK4R7XB	4.7 50V	[M]
C2612	F1H1H103A219	0.01 50V	[M]
C2613	F1H1H102A219	1000P 50V	[M]
C2614	ECA1HAK3R3XB	3.3 50V	[M]
C2615	ECA1HAK4R7XB	4.7 50V	[M]
C2616	F1H1C333A071	0.033 16V	[M]
C2617	F1H1H103A219	0.01 50V	[M]
C2618	F1H1H103A219	0.01 50V	[M]
C2620	ECA1CAK100XB	10 16V	[M]
C2621	ECA1HAKR47XB	0.47 50V	[M]
C2622	ECA1HAK010XB	1 50V	[M]
C2623	ECA1HAK010XB	1 50V	[M]
C2624	ECJ1VC1H101K	100P 50V	[M]
C2625	ECA1CAK220XB	22 16V	[M]
C2626	ECJ1VF1C105Z	1 16V	[M]
C2627	ECA1CAK220XB	22 16V	[M]
C2629	ECA0JAK101XB	100 6.3V	[M]
C2630	ECA0JAK101XB	100 6.3V	[M]
C2631	ECJ1VC1H151J	150P 50V	[M]
C2632	F1H1H102A219	1000P 50V	[M]
C2633	ECJ1VC1H120J	12P 50V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C2634	ECJ1VC1H120J	12P 50V	[M]
C2636	F1H1H102A219	1000P 50V	[M]
C2637	F1H1H332A013	3300P 50V	[M]
C2638	F1H1H103A219	0.01 50V	[M]
C2639	ECA1HAK4R7XB	4.7 50V	[M]
C2641	ECA1HAK010XB	1 50V	[M]
C2642	ECA1HAK010XB	1 50V	[M]
C2643	ECJ1VB1H682K	6800P 50V	[M]
C2644	ECJ1VB1H682K	6800P 50V	[M]
C2647	F1H1H102A219	1000P 50V	[M]
C2648	F1H1H103A219	0.01 50V	[M]
C2649	F1H1C104A008	0.1 16V	[M]
C2671	ECJ1VC1H101K	100P 50V	[M]
C2673	ECJ1VC1H101K	100P 50V	[M]
C2674	F1H1H103A219	0.01 50V	[M]
C2678	F1H1H103A219	0.01 50V	[M]
C2701	F1H1H103A219	0.01 50V	[M]
C2702	ECA1CAK101XB	100 16V	[M]
C2703	F1H1H471A219	470P 50V	[M]
C2704	F1H1H471A219	470P 50V	[M]
C2705	ECA1HAK010XB	1 50V	[M]
C2706	ECA1HAK010XB	1 50V	[M]
C2711	ECA1CAK101XB	100 16V	[M]
C2712	F1H1H103A219	0.01 50V	[M]
C2753	F1H1C104A041	0.1 16V	[M]
C2802	ECA1HAK2R2XB	2.2 50V	[M]
C2803	ECJ1VB1A105K	1 10V	[M]
C2821	ECJ1VC1H101K	100P 50V	[M]
C2852	ECA1CAK101XB	100 16V	[M]
C2853	F1H1C104A041	0.1 16V	[M]
C2871	F1H1H331A013	330P 50V	[M]
C2872	F1H1C223A001	0.022 16V	[M]
C2874	F1H1H331A013	330P 50V	[M]
C2882	ECJ1VC1H180J	18P 50V	[M]
C2883	ECJ1VC1H180J	18P 50V	[M]
C2901	F1H1C104A041	0.1 16V	[M]
C2903	F1H1H103A219	0.01 50V	[M]
C2904	ECA1CAK101XB	100 16V	[M]
C2906	F1H1H102A219	1000P 50V	[M]
C2910	ECJ1VB1H681K	680P 50V	[M]
C2940	F1H1C104A041	0.1 16V	[M]
C2941	ECA1CAK330XB	33 16V	[M]
C2943	ECA1HAK2R2XB	2.2 50V	[M]
C2944	ECJ1VC1H101K	100P 50V	[M]
C2945	ECA1CAK470XB	47 16V	[M]
C2947	ECA0JAK101XB	100 6.3V	[M]
C2948	ECA1AAK221XB	220 10V	[M]
C2957	ECJ1VC1H101K	100P 50V	[M]
C2959	ECJ1VC1H101K	100P 50V	[M]
C2961	ECA1AM471B	470 10V	[M]
C2976	ECA1CAK100XB	10 16V	[M]
C5101	F2A1V102A154	1000P 35V	[M]
C5102	ECA2AM100B	10 100V	[M]
C5103	ECA2AM100B	10 100V	[M]
C5104	F2A1V102A154	1000P 35V	[M]
C5105	ECA1AAK221XB	220 10V	[M]
C5106	F1K2A1040007	0.1 100V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
C5107	F1K2A1040007	0.1 100V	[M]
C5109	ECA1EAM101XB	100 25V	[M]
C5110	ECA1EAM101XB	100 25V	[M]
C5111	ECA0JAK101XB	100 6.3V	[M]
C5112	ECA1EAK100XB	10 25V	[M]
C5113	ECA1HM330B	33 50V	[M]
C5114	ECJ1VB1H104K	0.1 50V	[M]
C5115	ECJ1VB1H104K	0.1 50V	[M]
C5117	F2A1V471A141	470P 35V	[M]
C5118	F2A1V471A141	470P 35V	[M]
C5121	ECA1HAM470XB	47 50V	[M]
C5123	F2A1V471A141	470P 35V	[M]
C5124	F2A1V471A141	470P 35V	[M]
C5151	ECJ1VC1H101K	100P 50V	[M]
C5152	ECJ1VB1H104K	0.1 50V	[M]
C5153	ECJ1VC1H101K	100P 50V	[M]
C5155	F1H1H102A219	1000P 50V	[M]
C5157	F1H1H103A219	0.01 50V	[M]
C5158	F1H1H103A219	0.01 50V	[M]
C5159	F1H1H103A219	0.01 50V	[M]
C5171	ECA1HM102E	1000 50V	[M]
C5172	ECA1HM102E	1000 50V	[M]
C5201	F1H1H471A219	470P 50V	[M]
C5202	ECJ1VC1H101K	100P 50V	[M]
C5203	ECJ1VC1H101K	100P 50V	[M]
C5204	ECJ1VC1H101K	100P 50V	[M]
C5205	ECJ1VB1H104K	0.1 50V	[M]
C5208	F2A0J681A550	680P 6.3V	[M]
C5210	F1H1H221A748	220P 50V	[M]
C5301	ECJ1VB1A474K	0.47 10V	[M]
C5302	F1H1H331A013	330P 50V	[M]
C5303	ECJ1VB1A474K	0.47 10V	[M]
C5304	ECJ1VB1A474K	0.47 10V	[M]
C5305	F1H1H331A013	330P 50V	[M]
C5306	ECJ1VB1A474K	0.47 10V	[M]
C5308	ECJ1VB1H104K	0.1 50V	[M]
C5309	ECJ1VB1H104K	0.1 50V	[M]
C5310	F1K2A1040007	0.1 100V	[M]
C5311	F1H1H221A748	220P 50V	[M]
C5312	ECJ1VB1H104K	0.1 50V	[M]
C5313	ECJ1VB1H153K	0.015 50V	[M]
C5314	F1K2A1040007	0.1 100V	[M]
C5315	ECJ1VB1H104K	0.1 50V	[M]
C5316	ECJ1VB1H104K	0.1 50V	[M]
C5317	ECJ1VB1H104K	0.1 50V	[M]
C5318	F1K2A1040007	0.1 100V	[M]
C5319	ECJ1VB1H153K	0.015 50V	[M]
C5320	ECJ1VB1H104K	0.1 50V	[M]
C5321	F1K2A1040007	0.1 100V	[M]
C5322	ECJ1VB1H104K	0.1 50V	[M]
C5323	ECJ1VB1H104K	0.1 50V	[M]
C5324	ECQV1H684JL3	0.68 50V	[M]
C5325	ECJ1VB1H104K	0.1 50V	[M]
C5326	ERJ3GEY0R00V	0 1/16W	[M]
C5327	ECQV1H684JL3	0.68 50V	[M]
C5328	ECJ1VB1H104K	0.1 50V	[M]
C5329	ERJ3GEY0R00V	0 1/16W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

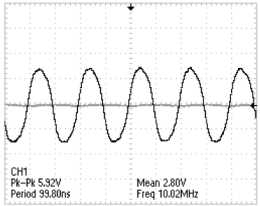
Ref. No.	Part No.	Part Name & Description	Remarks
C5330	F1H2A221A009	220P 100V	[M]
C5331	F1H2A221A009	220P 100V	[M]
C5332	F1H2A221A009	220P 100V	[M]
C5333	F1H2A221A009	220P 100V	[M]
C5334	ECJ1VB1H153K	0.015 50V	[M]
C5335	ECJ1VB1H153K	0.015 50V	[M]
C5336	F1H1H102A219	1000P 50V	[M]
C5337	F1H1H102A219	1000P 50V	[M]
C5343	ECJ1VB1H153K	0.015 50V	[M]
C5401	ECJ1VB1A474K	0.47 10V	[M]
C5402	F1H1H331A013	330P 50V	[M]
C5403	ECJ1VB1A474K	0.47 10V	[M]
C5404	ECJ1VB1A474K	0.47 10V	[M]
C5405	F1H1H331A013	330P 50V	[M]
C5406	ECJ1VB1A474K	0.47 10V	[M]
C5408	ECJ1VB1H104K	0.1 50V	[M]
C5409	ECJ1VB1H104K	0.1 50V	[M]
C5410	F1K2A1040007	0.1 100V	[M]
C5411	F1H1H221A748	220P 50V	[M]
C5412	ECJ1VB1H104K	0.1 50V	[M]
C5413	ECJ1VB1H153K	0.015 50V	[M]
C5414	F1K2A1040007	0.1 100V	[M]
C5415	ECJ1VB1H104K	0.1 50V	[M]
C5416	ECJ1VB1H104K	0.1 50V	[M]
C5417	ECJ1VB1H104K	0.1 50V	[M]
C5418	F1K2A1040007	0.1 100V	[M]
C5419	ECJ1VB1H153K	0.015 50V	[M]
C5420	ECJ1VB1H104K	0.1 50V	[M]
C5421	F1K2A1040007	0.1 100V	[M]
C5422	ECJ1VB1H104K	0.1 50V	[M]
C5423	ECJ1VB1H104K	0.1 50V	[M]
C5424	ECQV1H684JL3	0.68 50V	[M]
C5425	ECJ1VB1H104K	0.1 50V	[M]
C5426	ERJ3GEY0R00V	0 1/16W	[M]
C5427	ECQV1H684JL3	0.68 50V	[M]
C5428	ECJ1VB1H104K	0.1 50V	[M]
C5429	ERJ3GEY0R00V	0 1/16W	[M]
C5430	F1H2A221A009	220P 100V	[M]
C5431	F1H2A221A009	220P 100V	[M]
C5432	F1H2A221A009	220P 100V	[M]
C5433	F1H2A221A009	220P 100V	[M]
C5434	ECJ1VB1H153K	0.015 50V	[M]
C5435	ECJ1VB1H153K	0.015 50V	[M]
C5436	F1H1H102A219	1000P 50V	[M]
C5437	F1H1H102A219	1000P 50V	[M]
C5438	ECJ1VB1H153K	0.015 50V	[M]
C5701	ECA0JAK101XB	100 6.3V	[M]
C5920	ECA1HM102E	1000 50V	[M]
C5940	ECA1HM102E	1000 50V	[M]
C5950	ECA1EAM222XE	2200 25V	[M]
C5951	F1B1H103A007	0.01 50V	[M]
C5952	ECA1AAK470XB	47 10V	[M]
C5953	F1B1H103A007	0.01 50V	[M]
C5954	F1B1H103A007	0.01 50V	[M]
C5955	ECA1HM220B	22 50V	[M]
C5956	ECA1HAM470XB	47 50V	[M]
C5957	ECA1HAK100XB	10 50V	[M]

[illegible]	[illegible]	[illegible]	[illegible]

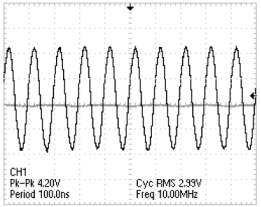
Ref. No.	Part No.	Part Name & Description	Remarks
C5958	F1B1H103A007	0.01 50V	[M]
C5959	F1B1H103A007	0.01 50V	[M]
C5960	ECQE2104KF3	0.1 250V	[M]
C5961	ECA1CM221B	220 16V	[M]
C5962	ECA1AM471B	470 10V	[M]
C5963	ECA1HAK4R7XB	4.7 50V	[M]
C6481	ECA1HM220B	22 50V	[M]
C6491	ECJ1VC1H101K	100P 50V	[M]
C6492	ECJ1VC1H101K	100P 50V	[M]
C6501	F1H1H103A219	0.01 50V	[M]
C6502	ECJ1VB1C105K	1 16V	[M]
C6503	ECJ1VB1H473K	0.047 50V	[M]
C6504	ECJ1VB1H104K	0.1 50V	[M]
C6505	ECJ1VB1H473K	0.047 50V	[M]
C6506	F1H1H103A219	0.01 50V	[M]
C6507	F1H1H102A219	1000P 50V	[M]
C6508	ECA1EM221B	220 25V	[M]
C6509	ECJ1VB1H104K	0.1 50V	[M]
C6510	ECJ1VB1H104K	0.1 50V	[M]
C6521	F1H1H103A219	0.01 50V	[M]
C6551	F1H1H103A219	0.01 50V	[M]
C6552	F1H1H103A219	0.01 50V	[M]
C6553	F1H1H103A219	0.01 50V	[M]
C6601	ECJ1VC1H101K	100P 50V	[M]
C6603	ECJ1VC1H101K	100P 50V	[M]
C6604	ECJ1VC1H101K	100P 50V	[M]
C6623	ECA1HM220B	22 50V	[M]
C6631	ECA1HM220B	22 50V	[M]
C6632	ECA1HM220B	22 50V	[M]
C6635	ECA1HM220B	22 50V	[M]
C6636	ECJ1VC1H101K	100P 50V	[M]
C6751	F1H1H103A219	0.01 50V	[M]
C6752	F1H1H103A219	0.01 50V	[M]
C6753	F1H1H103A219	0.01 50V	[M]
C7102	ECJ1VB1A474K	0.47 10V	[M]
C7107	ECJ1VB1H223K	0.022 50V	[M]
C7142	ECJ1VB1H332K	3300P 50V	[M]
C7154	ECJ1VB1C104K	0.1 16V	[M]
C7155	ECJ1VB1C104K	0.1 16V	[M]
C7161	ECJ1VB1C104K	0.1 16V	[M]
C7164	ECJ2FF1A106Z	10 10V	[M]
C7165	ECJ2FF1A106Z	10 10V	[M]
C7166	ECJ1VB1H103K	0.01 50V	[M]
C7203	F2A0J221A200	220P 6.3V	[M]
C7204	ECJ1VB1C104K	0.1 16V	[M]
C7216	ECJ1VB1H681K	680P 50V	[M]
C7217	ECJ1VB1C104K	0.1 16V	[M]
C7218	ECJ1VB1C823K	0.082 16V	[M]
C7223	ECEA1HKA4R7I	4.7 50V	[M]
C7225	ECJ1VB1H102K	1000P 50V	[M]
C7226	ECJ1VB1H102K	1000P 50V	[M]
C7227	ECA1HAK010XI	1 50V	[M]
C7228	ECA1HAK010XI	1 50V	[M]
C7230	ECJ1VB1C104K	0.1 16V	[M]
C7231	F2A0J221A200	220P 6.3V	[M]
C7232	F2A0J221A200	220P 6.3V	[M]
C7233	ECJ1VF1C104Z	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C7234	ECJ1VB1C104K	0.1 16V	[M]
C7235	ECEA1CKA100I	10 16V	[M]
C7241	ECJ1VB1H102K	1000P 50V	[M]
C7243	ECJ1VF1C104Z	0.1 16V	[M]
C7244	ECJ1VB1C153K	0.015 16V	[M]
C7253	ECJ1VB1H471K	470P 50V	[M]
C7263	ECJ1VB1C104K	0.1 16V	[M]
C7264	ECJ1VB1C104K	0.1 16V	[M]
C7315	ECJ1VB1A474K	0.47 10V	[M]
C7334	ECEA1AKA221I	220 10V	[M]
C7335	ECJ1VF1C104Z	0.1 16V	[M]
C7338	ECJ1VB1C563K	0.056 16V	[M]
C7339	ECJ1VB1C183K	0.018 16V	[M]
C7352	ECJ1VB1C183K	0.018 16V	[M]
C7601	ECEA0JKA330I	33 6.3V	[M]
C7613	ECJ1VB1C104K	0.1 16V	[M]
C7614	F2A0J101A013	100P 6.3V	[M]
C7626	ECJ1VB1C104K	0.1 16V	[M]
C7670	ECJ1VB1C104K	0.1 16V	[M]

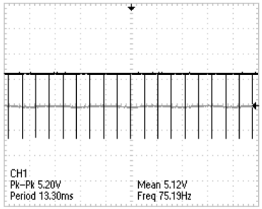
PRT0512 S/P/J/N/A



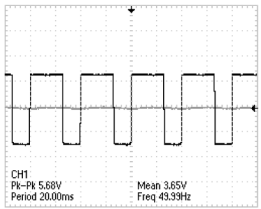
IC2801 PIN 13
CD PLAY
5.92Vp-p (50nsec.div)



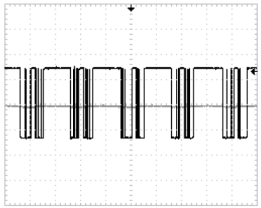
IC2801 PIN 15
CD PLAY
4.2Vp-p (100nsec.div)



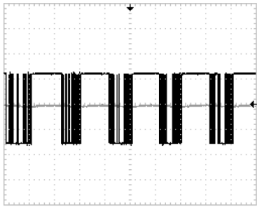
IC2801 PIN 19
CD PLAY
5.2Vp-p (25msec.div)



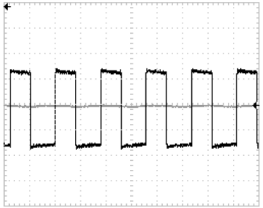
IC2801 PIN 20
CD PLAY
5.68Vp-p (10msec.div)



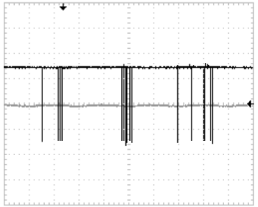
IC2801 PIN 70
CD PLAY
6.06Vp-p (10msec.div)



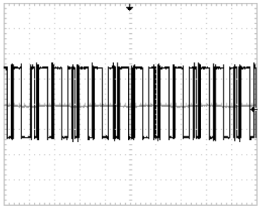
IC2801 PIN 71
CD PLAY
5.84Vp-p (10msec.div)



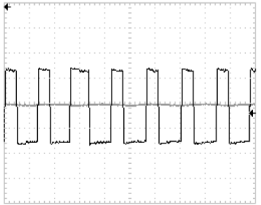
IC2801 PIN 72
CD PLAY
6.32Vp-p (5usec.div)



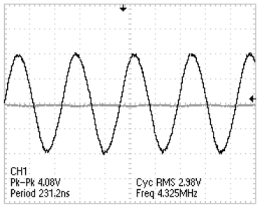
IC2801 PIN 76
CD PLAY
6.48Vp-p (2.5msec.div)



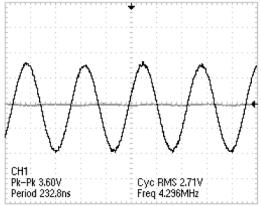
IC2801 PIN 77
CD PLAY
6.24Vp-p (25msec.div)



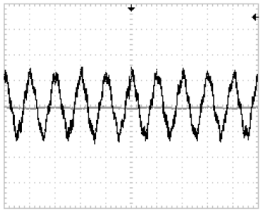
IC2801 PIN 78
CD PLAY
6.03Vp-p (5usec.div)



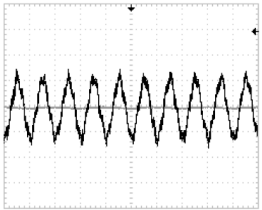
IC2809PIN 8
CD PLAY
4.08Vp-p (100nsec.div)



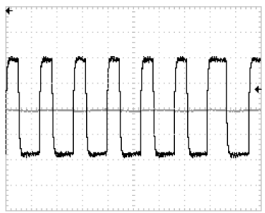
IC2809 PIN 9
CD PLAY
3.6Vp-p (100nsec.div)



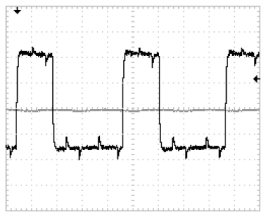
CN2801 PIN 1
CD PLAY
600mVp-p (1msec.div)



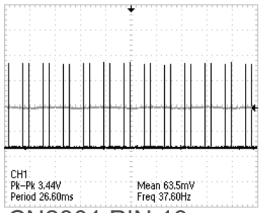
CN2801 PIN 3
CD PLAY
616mVp-p (1msec.div)



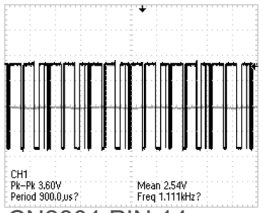
CN2801 PIN 10
CD PLAY
3.96Vp-p (5msec.div)



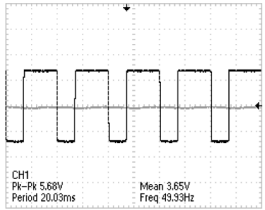
CN2801 PIN 11
CD PLAY
3.66Vp-p (5usec.div)



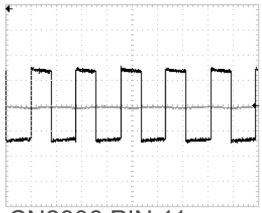
CN2801 PIN 13
CD PLAY
3.44Vp-p (50msec.div)



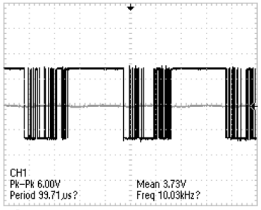
CN2801 PIN 14
CD PLAY
3.6Vp-p (25msec.div)



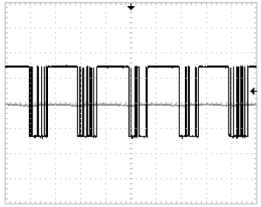
CN2806 PIN 3
CD PLAY
5.68Vp-p (10msec.div)



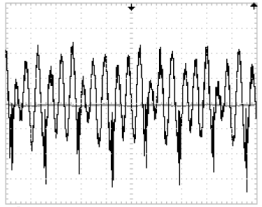
CN2806 PIN 11
CD PLAY
6.08Vp-p (5usec.div)



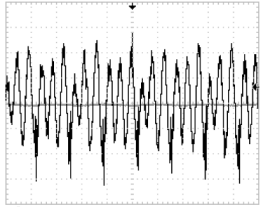
CN2806 PIN 12
CD PLAY
6Vp-p (5msec.div)



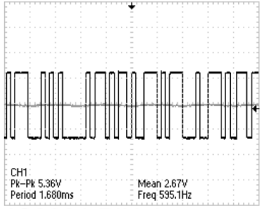
CN2806 PIN 13
CD PLAY
5.68Vp-p (10msec.div)



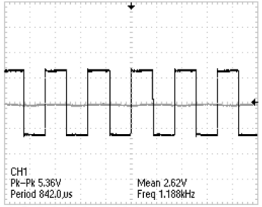
CN2809 PIN 5
CD PLAY
119mVp-p (1usec.div)



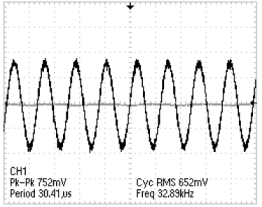
CN2809 PIN 8
CD PLAY
121mVp-p (1usec.div)



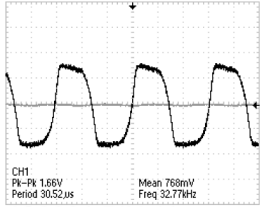
IC2801 PIN 4
CD PLAY
5.36Vp-p (5msec.div)



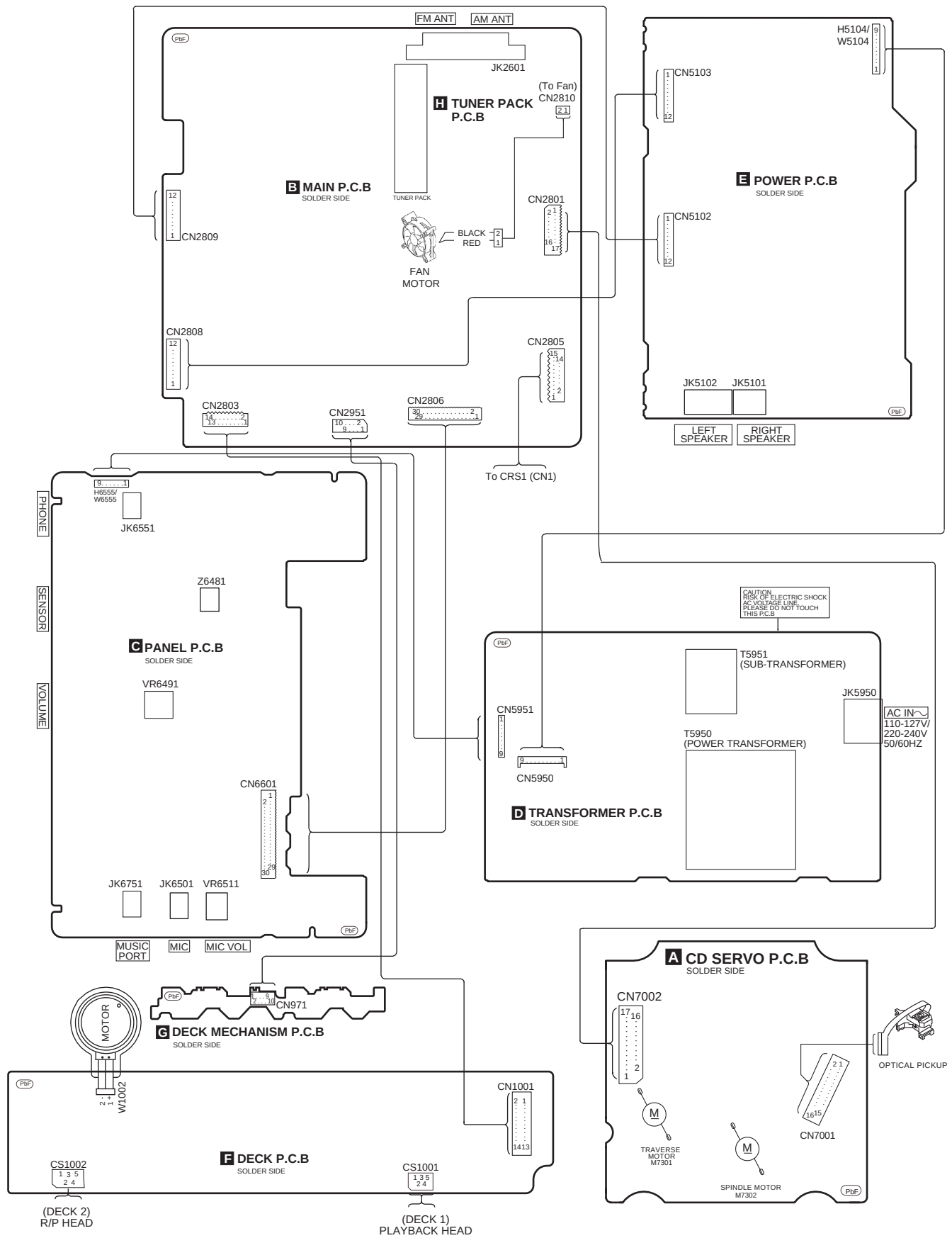
IC2801 PIN 5
CD PLAY
5.36Vp-p (500usec.div)



IC2801 PIN 10
CD PLAY
752mVp-p (25usec.div)



IC2801 PIN 11
CD PLAY
1.66Vp-p (10usec.div)


FM ANT
AM ANT
JK2601
H TUNER PACK P.C.B
(To Fan) CN2810
TUNER PACK
B MAIN P.C.B
SOLDER SIDE
CN2809
CN2801
BLACK
RED
FAN MOTOR
H5104/ W5104
CN5103
E POWER P.C.B
SOLDER SIDE
CN5102
CN2808
CN2805
JK5102
JK5101
LEFT SPEAKER
RIGHT SPEAKER
CN2803
CN2951
CN2806
To CRS1 (CN1)
H6555/ W6555
JK6551
PHONE
SENSOR
VOLUME
Z6481
C PANEL P.C.B
SOLDER SIDE
VR6491
CN6601
JK6751
JK6501
VR6511
MUSIC PORT
MIC
MIC VOL
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE
PLEASE DO NOT TOUCH
THIS P.C.B
T5951
(SUB-TRANSFORMER)
JK5950
AC IN
110-127V/
220-240V
50/60HZ
CN5951
T5950
(POWER TRANSFORMER)
CN5950
D TRANSFORMER P.C.B
SOLDER SIDE
A CD SERVO P.C.B
SOLDER SIDE
CN7002
OPTICAL PICKUP
CN971
MOTOR
G DECK MECHANISM P.C.B
SOLDER SIDE
W1002
CN1001
CN7001
TRAVERSE MOTOR M7301
SPINDLE MOTOR M7302
F DECK P.C.B
SOLDER SIDE
CS1002
CS1001
(DECK 2) R/P HEAD
(DECK 1) PLAYBACK HEAD

POWER P.C.B.

Ref No.	IC5201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5	2.4	2.5	2.3	2.4	0	4.2	1.6	2.5	2.6	3.2	1.5	5						
STANDBY	0	0	0	0	0	0	0	0	0	0.07	0	0	0	0						
Ref No.	IC5301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.43	0.05	0.05	28.54	-0.02	-30	-22	28.95	11	-0.1	-30	-18	-30	-0.1	10.8	29	-30	-30	0	28.6
STANDBY	0.1	0	0	0.1	0	0.5	0.1	0.1	0.05	0.2	0.5	0.1	0.5	0.2	0	0.1	0.5	0.8	0	0.1
Ref No.	IC5301																			
MODE	21	22	23																	
CD PLAY	-0.1	-0.1	4.6																	
STANDBY	0	0	0																	
Ref No.	IC5401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	24.3	-0.05	-0.05	28.5	-0.01	-30	-22	28	0	-0.1	-30	17	30	0	11	28.9	-30	-30	0	28.55
STANDBY	0	0	0	0.1	0	0.5	0.1	0.1	0.1	0.25	0.5	0.1	0.5	0.2	0	0.1	0.5	0.5	0	0.1
Ref No.	IC5401																			
MODE	21	22	23																	
CD PLAY	-0.1	-0.1	45.8																	
STANDBY	0	0	0																	

POWER P.C.B.

Ref No.	Q5101				Q5102				Q5103				Q5104				Q5108		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	29	40.7	32.5		-41	30.4	-37.7		0	5.4	-0.3		-0.3	5.4	0		-41	-37.8	-40.5
STANDBY	0	0	10.5		-1	0	0		0	0.5	0.2		0.2	0.5	0		-0.6	0	0.7
Ref No.	Q5109				Q5110				Q5111				Q5112				Q5113		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	-5	-15.3	-3.6		28.4	32.5	29		15.4	28.3	16.1		17.1	12	16.4		17.3	16.5	17.1
STANDBY	0	-0.7	0		0	11	0		0.06	0.06	0.07		0.42	0.08	0.45		0.47	0.45	0.47
Ref No.	Q5114				Q5115				Q5201				Q5202						
MODE	E	C	B		E	C	B		E	C	B		E	C	B				
CD PLAY	11.3	16.4	11.8		5.1	5.7	8		2.6	2.5	2.4		2.6	0	5.1				
STANDBY	0	0.43	0.47		0	0	0		0	0	0		0	0	0				

TRANSFORMER P.C.B.

Ref No.	Q5950				Q5951				Q5952				Q5953						
MODE	E	C	B		E	C	B		E	C	B		E	C	B				
CD PLAY	6.2	6.8	12.2		-24.6	-45	-25		0	3.6	-0.4		0	0.1	0.8				
STANDBY	6.2	6.8	14.8		-20	-20	-20		0	3.8	-0.4		0	6.2	0				
Ref No.																			
MODE																			
CD PLAY																			
STANDBY																			
Ref No.																			
MODE																			
CD PLAY																			
STANDBY																			
Ref No.																			
MODE																			
CD PLAY																			
STANDBY																			

Ref No.	IC2803																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6
STANDBY	0	4.6	0	0	4.6	4.6	4.6	0	0	4.6	0	4.6	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Ref No.	IC2803																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0	0	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	9.2	5.5	0
STANDBY	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	9.2	5.5	0
Ref No.	IC2803																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
CD PLAY	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.6	4.6	4.6	8	2.2				
STANDBY	0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	0	0	4.6	0	0	0				
Ref No.	IC2804																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	7.5	7.4	7.3	0	15.1	7.5	7.4	7.3												
STANDBY	7.5	7.4	7.3	0	15.1	7.5	7.5	7.3												

CD SERVO P.C.B.(SIDE A)

Ref No.	Q7601		
MODE	E	C	B
CD PLAY	3.2	2.1	2.5
STANDBY	3.4	0.2	3.4

MAIN P.C.B.

Ref No.	Q2142			Q2242			Q2311			Q2317			Q2341		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	0	0	0	0	0	0	0	-3.5	0	0	-3.5	0	0	-3.5
STANDBY	0	0	0	0	0	0	0	0	0.6	0	0	0.6	0	0	0.6
Ref No.	Q2411			Q2417			Q2441			Q2501			Q2511		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	0	-3.5	0	0	-3.5	-	-	-	0.3	2.2	1	0	-3.9	0
STANDBY	0	0	0.6	0	0	0.6	0	0	0.6	0.4	0.6	1.1	2.7	2.7	0
Ref No.	Q2521			Q2601			Q2606			Q2980			Q2803		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0.1	2.6	0.8	0	0	0	15.1	0	15.1	5.1	-0.4	5.4	0	5.5	0
STANDBY	0.1	2.9	0.8	0	0	0	14.9	0	14.9	5.1	-0.4	5.4	0	5.5	0
Ref No.	Q2901			Q2902			Q2906			Q2907			Q2936		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	5.7	3.4	5	2.6	5.1	3.2	0	5.1	0	0	1.7	0.4	12	0	12
STANDBY	6.9	3.4	6.2	2.6	6.2	2.2	0	5.1	0	0	5.1	0	12.1	2	12.1
Ref No.	Q2937			Q2942			Q2943			Q2948			Q2949		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	12	0	12	0	12	0	12	0	0	0	0.2	0	5.4	0
STANDBY	0	12.1	0	12.1	0	0	0	12	0	0	0	0.2	0	5.4	0
Ref No.	Q2950			Q2951			Q2952			Q2957			Q2958		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	5.5	5.5	4.8	5.5	5.5	0	0	0.1	5.4	0	12	0	12	0	12
STANDBY	5.5	5.5	4.8	5.5	5.5	4.8	0	0.1	5.4	0	12.1	0	2.6	6.2	3.2
Ref No.	Q2959			Q2960			Q2978								
MODE	E	C	B	E	C	B	E	C	B						
CD PLAY	0	12	0	12	0	12	5.1	0	5.4						
STANDBY	0	12.1	0	12.1	0	0	5.1	0	5.4						

CD SERVO P.C.B.(SIDE A)

Ref No.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.4
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	0	0	1.6	0
Ref No.	IC7001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	1.7	1.7	1.9	0	3.4	1.5	3.4	3.4	0	1.7	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.7
STANDBY	1.7	3.4	1.7	1.7	1.7	0	3.4	1.5	3.4	3.4	0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Ref No.	IC7001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0.2	2.5	1.4	1.7	1.7	1.8	3.4	1.2	1.2	1.3	1.7	1.7	0.8	1.5	1.5	1.5	0	3.1	1.5	0
STANDBY	0	3.4	1.4	1.7	1.7	1.8	3.4	1.2	1.2	1.2	0	1.7	0.8	1.1	0	1.5	0	3.1	1.5	0
Ref No.	IC7001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	3.4	3.4	0	0	0	0	3	2.5	3.7	2.3	0	3.7	0	1.7	0	1.5	3.4	0	3.4	1.7
STANDBY	3.4	0.8	0.8	0	3.2	0	3.7	0	3.7	0	0	3.7	0	1.7	0	1.5	3.4	0	3.4	1.7
Ref No.	IC7001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	-	3.4	0	0	0	0	0	0	0	0	0	0	3.4	0	0	0	0	0	0	0
STANDBY	1.6	3.4	0	0	0	0	0	0	0	0	0	0	3.4	0	0	0	0	0	0	0
Ref No.	IC7002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.7	0	1.7	0	0	0	0	0	0	7.2	4	3.4	3.4	3.4	3	3.8	3.5	3.2	7.2	0
STANDBY	1.7	0	1.7	3.3	0	0	0	0	0	7.5	3.8	3.8	3.4	3.4	3.4	3.4	3.4	3.4	7.5	0
Ref No.	IC7002																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	7.3	0	0	0	7.3	1.7	1.7	1.7												
STANDBY	7.5	0	0	0	7.5	1.7	1.7	1.7												

MAIN P.C.B.

Ref No.	IC2601																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2	0	2	0	0	5	5.2	3.8	6	0	4.9	3.6	0	1.5	1.9	2	2	0	0	0.1
STANDBY	2	6	2	2	0	5	5.2	0	6	0	4.9	0	1.5	1.5	1.9	2	2	0	0	0
Ref No.	IC2601																			
MODE	21	22	23	24																
CD PLAY	2.4	2.4	6	4.6																
STANDBY	2.4	2.4	6	4.6																
Ref No.	IC2602																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.6	0	0	0	5.2	0	1.2	4.6	0	14.9	0	0	2.6	0	0	0	0	15	0	2.6
STANDBY	2.6	0	0	0	5.2	4.9	0.8	4.6	0	15	0	0	2.6	0	5.2	0	0	0	0	0
Ref No.	IC2801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0	2.5	2.5	0	0	0	0	0	0.0	0.7	5.5	2.7	-	5.5	5.5	5.4	5.5	3.6
STANDBY	0	0	0	2.4	2.5	0	0	0	0	0.6	0.7	0	2.7	0	2.7	5.5	5.5	5.5	0	3.7
Ref No.	IC2801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	5.1	5.1	0	0	0	0	5.5	0	0	0	0	0	0	0	0	0	5.4	0	5.4	0
STANDBY	5.2	5.1	0	0	0	0	5.5	0	0	0	0	0	5	0	0	0	5.4	0	5.5	5.5
Ref No.	IC2801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	5.4	5..4	0	0	0	0	0	5.1	0	0	0	0	5.5	5.5	5.5
STANDBY	0	0	0	0	0	5.4	5..4	0	0	0	0	5	5.1	0	0	0	0	5.5	5.5	5.5
Ref No.	IC2801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	5.5	0	0	0	5.5	0	0	0	3.5	3.8	4.7	0	5.5	1	5.4	4.2	4.9	5.1	0
STANDBY	0	5.5	0	0	0	5.5	0	0	0	5.5	5.5	5.5	5.5	5.5	5.1	5.5	0	5.5	5.1	0
Ref No.	IC2801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	4.6	5.1	0	0	5.1	0	0	0	0.1	5.1	5.5	4.6	4.6	4.7	0	4.7	5.5	5.5	5.4
STANDBY	0	4.6	5.1	0	0	5.1	0	0	0	0.1	5.1	5.5	4.6	4.6	4.7	0	4.7	5.5	5.5	5.4

SCHEMATIC DIAGRAM - 7

F DECK CIRCUIT

—— : +B SIGNAL
▨▨▨ : RECORD SIGNAL LINE
▨▨▨ : PLAYBACK SIGNAL

TO B
MAIN CIRCUIT (CN2803) ON SCHEMATIC DIAGRAM-3

CN1001 (14 13 12 11 10 9 8 7 6 5 4 3 2 1)
PBL PBR AFGND RECINL RECINR +B REC_H MO+B MO GND DMT DECK1_H BP1 MOTOR

PLACKBACK HEAD (L R) — CS1001 (1 2 3 4 5)
RECORD/PLAY HEAD (L R) — ERASE HEAD — CS1002 (1 2 3 4 5)

IC1001
AN7348S-E1
P.B EQ/REC AMP/ ALC/TPS AMP
TAPE A INPUT, TAPE A INPUT, PB AMP NF, PB AMP EQ, PB AMP OUTPUT, ALC LOW CUT, REC IN, REC OUT, ALC T, HI/LO, CRO/NOR, VCC
TAPE B INPUT, TAPE B INPUT, PB AMP NF, PB AMP EQ, PB AMP OUTPUT, AB SW T, REC IN, REC OUT, REC/PB SW, AB SW, RIPPLE FILTER, OUTPUT GND

IC1004
C1AA00000612
R/P SELECT
VCC SW GND CTRL2 CTRL1

Q1003
B1AAGC000007
SWITCHING (RECH)

Q1004, Q1005
B1AAGC000007
BIAS OSCILLATOR

Q1004
Q1005

Q1007
B1ABCF000176
BIAS OSC CONTROL

D1003
B0ACCK000005

L1001 G0C470JA0052
L1002 G2ZZZ00000024

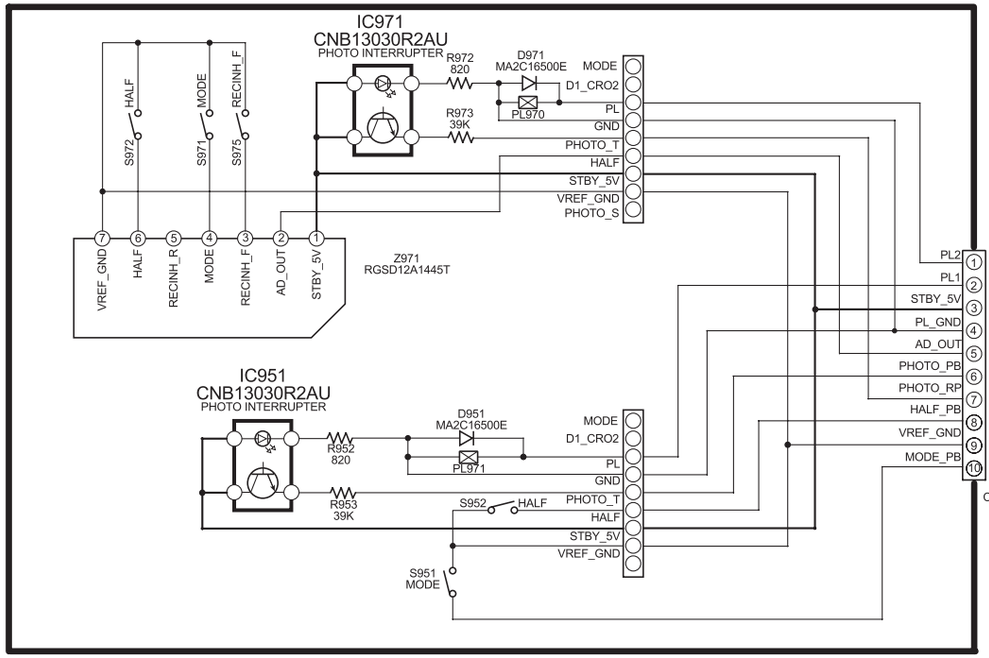
Q1017
B1AARC000003
MOTOR SWITCH

W1002

TP 10, TP 5, TP 4, TP 3, TP 11, TP 12

SA-AK340GCP DECK CIRCUIT

G DECK MECHANISM CIRCUIT



SA-AK340GCP DECK MECHANISM CIRCUIT

SA-AK340GCP POWER CIRCUIT

2/2

IC5201
C0JBAB000011
LOGIC

Q5201
B1ABCF000176
FREQUENCY HOPPING SWITCH

Q5202
B1ADCF000063
FREQUENCY HOPPING SWITCH

Q5103,Q5104
B1ABCF000176
FAN ON/OFF SWITCH

Q5111
B1BACG000023
+15V REGULATOR

Q5101
B1DEGM000026
CURRENT CONTROL SWITCH

Q5110
B1AACF000064
26V REGULATOR

Q5112
B1BCCG000002
CURRENT STABLISER

Q5113
B1GDCFNA0001
CURRENT LIMITER SWITCH

Q5108
B1ABCF000176
SWITCH

Q5115
B1AAKD000014
5.7 REGULATOR

Q5114
B1ABCF000176
11V REGULATOR

Q5109
2SB0709AHL
VOLTAGE REGULATOR

TO B MAIN CIRCUIT (CN2809) ON SCHEMATIC DIAGRAM-3

CN5102: F_HOP, T_GND, MODE, +15V, HI_L, HI_R, A_GND, LO_L, LO_R, A GND, FAN

TO B MAIN CIRCUIT (CN2808) ON SCHEMATIC DIAGRAM-3

CN5103: PGND, FLGND, DGND, PCONT, CD8V, NC, DC_DET, MF_HOP, 12V, 15V, -3V, SW5V

JK5102 SPEAKER: +R_HIGH, +R_LOW, - L_HIGH, - L_LOW

JK5101: -L_LOW, +L_LOW, -L_HIGH, +L_HIGH

TO D TRANSFORMER CIRCUIT (CN5950) ON SCHEMATC DIAGRAM-5

H5104/W5104: +VCC1, +VCC2, -VCC1, -VCC2, AC GND, AC GND, ACIN, SUB+B, DGND

SCHEMATIC DIAGRAM - 6

E POWER CIRCUIT —— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

1/2

SA-AK340GCP POWER CIRCUIT

IC5301
C1BA00000407
2-CH DIGITAL AMP

IC5401
C1BA00000407
2-CH DIGITAL AMP

Q5154
B1ADCF000063
PCONT SWITCH

Q5173
B1ABCF000176
SWITCH

Q5153
B1ABCF000176
MODE SWITCH

IC5201
C0JBAB000011
LOGIC

Q5201
B1ABCF000176
FREQUENCY HOPPING SWITCH

Q5202
B1ADCF000063
FREQUENCY HOPPING SWITCH

Q5103,Q5104
B1ABCF000176
FAN ON/OFF SWITCH

Q5111
B1BACG000023
+15V REGULATOR

Q5101

L5301 G0C220Z00002

L5401 G0C220Z00002

L5603 G0B9R5K00001

L5604 G0B9R5K00001

L5403 J0JKB0000037

L5402 J0JKB0000037

L5101 J0JKB0000037

L5102 J0JKB0000037

L5601 G0B9R5K00001

L5602 G0B9R5K00001

X5202 H2A375300003

X5201 H2A415300001

D5126 B0ACCK000005

JK5102 SPEAKER

JK5101

TO B MAIN CIRCUIT (CN2809) ON SCHEMATIC DIAGRAM-3

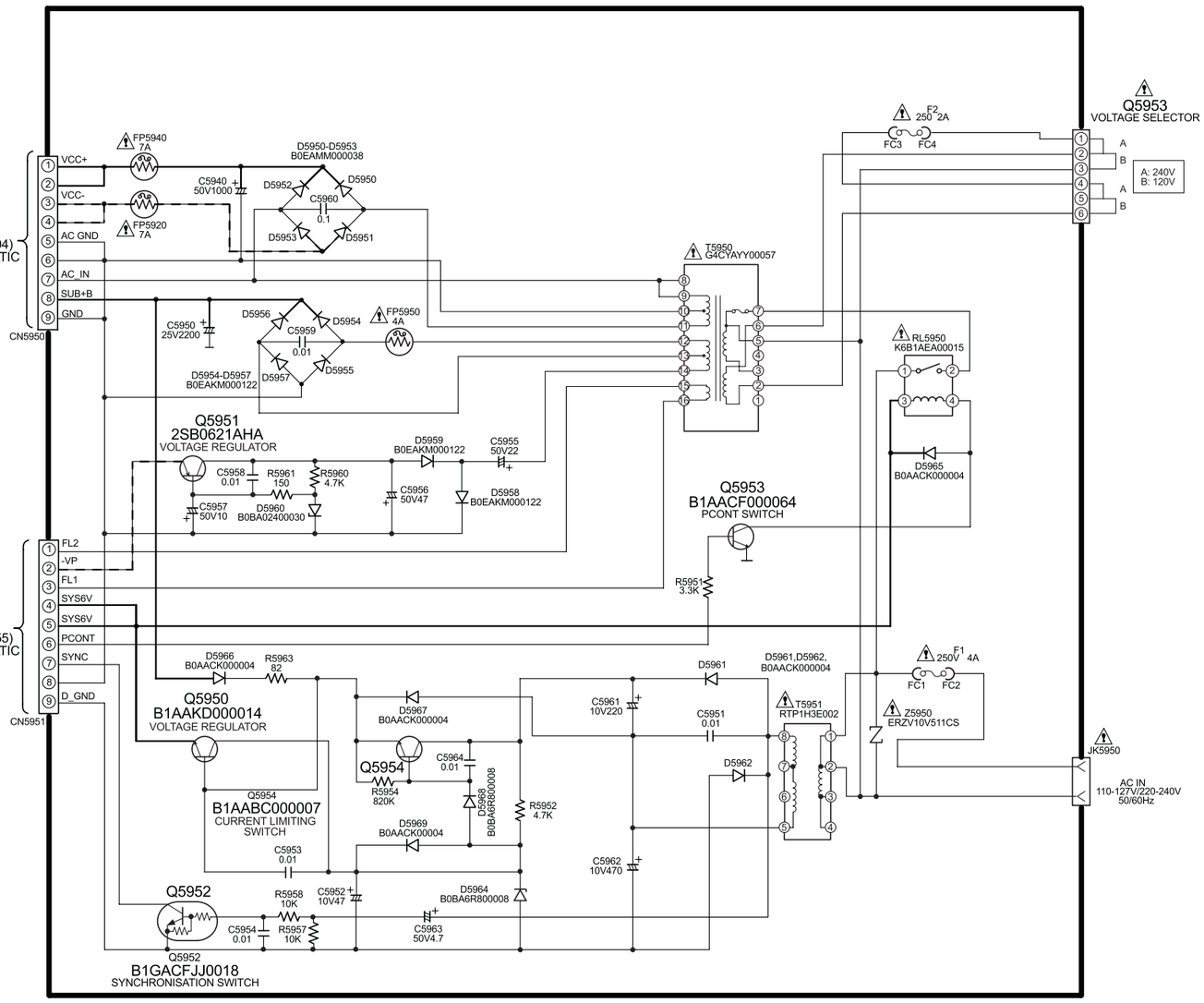
F_HOP
T_GND
MODE
+15V
HI_L
HI_R
A_GND
LO_L
LO_R
A GND

+VCC1
+VCC2

SCHEMATIC DIAGRAM - 5

D TRANSFORMER CIRCUIT

—— : +B SIGNAL LINE – – : -B SIGNAL LINE



SCHEMATIC DIAGRAM - 4

C PANEL CIRCUIT

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

TO D
TRANSFORMER CIRCUIT (CN5951)
ON SCHEMATIC DIAGRAM-5

H6555/W6555 (1 2 3 4 5 6 7 8 9)
FL2 -VP FL1 SYS6V SYS6V PCONT SYNC DGND
GND2
SYNC
PCONT
SYS6V

S6108 CD5
S6107 CD4
S6106 CD3
S6105 CD2
S6104 CD1
S6103 OPEN /CLOSE
S6102 SINGLE DISC CHANGE
S6101 POWER
S6301 CD

R6110 22K R6109 10K R6108 6.8K R6107 4.7K R6106 2.7K R6105 2.2K R6104 1.8K R6103 2.2K R6102 1K R6199 10K R6399 10K
D6458 B3AAA0000583
R6458 4.7K

R6631 47
R6632 47
D6635 B0BC5R600003
C6635 50V22
C6632 50V22
GND2

KEY3 GND2 HP_SW KEY1 VREF+ KEY3 SYS6V

S6302 TAPE
S6303 STOP
S6304 REC
S6305 TUNER/ BAND
S6306 MUSIC P.
S6308 MULTI DISC CHANGE
R6302 1K
R6303 2.2K
R6304 1.8K
R6305 2.2K
R6306 2.7K
R6307 4.7K
R6308 6.8K
R6309 10K
R6310 22K
W6502 0

S6201 DECK2 OPEN
S6202 DISPLAY/ DEMO
S6203 DECK1/2
S6204 H.BASS
S6205 FF
S6206 REW
S6207 DECK1 OPEN
R6202 1K
R6203 2.2K
R6204 1.8K
R6205 2.2K
R6206 2.7K
R6207 4.7K
R6208 39K

R6493 10K
R6492 47K
R6491 47K
C6492 100P
C6491 100P
VR6491
EVEKE2F3524B
VOLUME JOG

KEY2
VREF+
VJOG_B
VJOG_A
GND2
C6631 50V22

FL6602
A2BD00000138
GR1 GR2 GR3 GR4 GR5 GR6 GR7 GR8 GR9 GR10 GR11 GR12
GR12 SG16 SG15 SG14 SG13 SG12 SG11 SG10 SG9 SG8 SG7 SG6 SG5 SG4 SG3 SG2 SG1

IC6601
C0HBB0000057
FL DRIVER
VSS VDD G1 G2 G3 G4 G5 G6 G7 G8 G9
NC NC NC NC OSC NC DIN STB SCLK K2
G10 G11 G12/S17 VEE S16 S15 S14 S13 S12 S11 S10
GR10 GR11 GR12 SG16 SG15 SG14 SG13 SG12 SG11 SG10
VSS VDD S1 S2 S3 S4 S5 S6 S7 S8 S9
SG1 SG2 SG3 SG4 SG5 SG6 SG7 SG8 SG9

R6605 82K
W6504 0
W6503 0
W6505 0
FL_DOUT R6604 220
FL_CLK R6603 220
FL_CS R6601 470
PA_SW
MOT_10V
C6604 100P
C6603 100P
C6601 100P
C6636 100P
C6623 50V22

R6457 390
D6462
D6457,D6462 B3ACA0000302
D6457
K6104

QR6457
B1GBCFLL0037
LED DRIVE
VOL_LED
GND2

TO B
MAIN CIRCUIT (CN2806) ON SCHEMATIC DIAGRAM-3

SYS6V PCONT SYNC VREF+ RMT P_GND KEY1 KEY2 KEY3 H.BASS_LED FL_CLK FL_DOUT FL_CS FL_RST VJOG_B VJOG_A VOL_LED SW_LED MOT10V PA_IN_R PA_IN_GND PA_IN_L SW_5V D_GND HP_R HP_GND HP_L MIC_GND MIC +15V
W6501 0
CN6601

PA_GND C6751 0.01
PA_IN_R C6752 0.01 R6753 3.3K C6753 0.01
PA_IN_L R6751 3.3K
PA_SW
GND2
R6752 1.5K R6754 1.5K
JK6751
MUSIC PORT INPUT

JK6551
PHONES
C6553 0.01
C6551 0.01 C6552 0.01
HP_GND HP_R HP_L HP_SW GND2

GND2 RMT VREF+
Z6481
B3RAB0000025
REMOTE SENSOR
R6481 0
C6481 50V22
GND2 SW5V

MIC_GND +15V MIC
R6507 1K
C6510 0.1
C6507 1000P
R6509 100
C6509 0.1
R6506 2.2K
C6506 0.01
C6505 0.047
R6505 330K
R6504 1.2K
C6504 0.1
Q6502
Q6501,Q6502
B1AACF000064
MIC AMP
R6503 33
R6502 330K
Q6501
C6503 0.047
C6502 1
C6501 0.01
R6501 560
C6521 0.01
L6501,L6502
G0C100JA0052
L6502
L6501
VR6511
EVUF2AF15B14
MIC VOLUME
A B COM
JK6501
MIC

SA-AK340GCP PANEL CIRCUIT

W2526 0

SW15V ASP_CLK ASP_DA +15V MUTE_A -9V A_GND HP_L HP_R +15V

LM_1 VCC DECK1_H REC(59) MTR(58) PLG2 PLG1 MODE_1 HALF_1

W2523 0

VREF+

IC2871
E-EPROM IC
(NOT SUPPLIED)

NC 1 | NC 8
VCC 2 | GND 7
EE_CS 3 | 6
EE_CLK 4 | EE.DAT 5

R2846 4.7K
R2845 10K
R2844 10K
R2842 10K
R2841 10K
R2873 22K
R2874 4.7K
C2872 0.022
C2871 330P
C2874 330P

VSS 64 | NC 63 | VCC 62 | NC 61 | DECK1_H 60 | REC 59 | MTR 58 | PLG2 57 | PLG1 56 | NC 55 | NC 54 | MODE_1 53 | HALF_1 52 | NC 51

STAND_BY 50 | NC 49 | NC 48 | DCDET 47 | PCONT/EFP/CS 46 | NC 45 | NC 44 | EE_DAT 43 | EE_CLK 42 | EE_CS/EFP/EPH 41 | MUTE_A 40 | MUTE_DA 39

W2576 0 — STANDBY
W2536 0 — IDCDET, PCONT
W2537 0 — MUTE_A, MUTE_D_AMP

REG1 38 | REG2 37 | REG3 36 | REG4 35 | REG5 34 | REG6 33 | REG7 32 | REG8 31

R2823 10K
R2827 10K
W2547 0
W2548 0
W2549 0

R2820 100K | R2819 100K | R2818 100K | R2817 100K | R2830 100K | R2831 100K | R2832 100K | R2833 100K

R2851 47K
C2852 16V100
C2853 0.1
R2810 22K

NMI 17 | RMT 18 | BLKCK 19 | SYNC 20 | ST/DO 21 | SD 22 | NC 23 | SW_LV-1 24 | SW_LV-2 25 | ASP_DA 26 | ASP_CLK 27 | 10DB_ATT 28 | PLL_DAT 29 | PLL_CLK 30

R2802 100 | R2803 10K

C2821 100P

Q2803
B1GBCFJJ0051
RESET (MICRO-P) SWITCH

R2883 330K | C2883 18P | R2886 1M | R2881 220
R2882 10M | X2801 H0A327200115 | C2882 18P | X2802 H2B100500004
C2803 1
D2803 B0ACCK000005 | C2802 50V2.2 | D2801 B0ACCK000005
W2552 0

VREF+ SYS6V

FAN
MOT_12V

C2940 0.1
R2940 820K

Q2942
B1ACKD000006
FAN MOTOR ON/OFF SWITCH

R2945 10K | C2945 16V47 | C2944 100P | R2944 4.7K
D2946 B0ADCJ000020
R2942 5.6K | R2941 10K | C2941 16V33
R2943 10K — Q2943

R2949 47K | R2939 47K — IDCDET
R2948 100 — Q2948 | C2948 10V220 — Q2949
C2947 6.3V100
W2571 0 | W2532 0 | W2572 0
R2946 56K | R2947 27 | W2573 0

Q2943
B1ABCF000176
FAN SUPPLY
CONTROL SWITCH

Q2948,Q2949
B1ABCF000176
DC DETECT SWITCH

P_GND

R2894 47K | W2535 0 — VREF+
D2811 B0ADCJ000020 — CD7.5V, SW5V
D2813 B0ACCK000005 — +15V
W2518 0 — IDCDET

F_HOP
T_GND
MUTE-D-AMP
+15V
FAN

TO FAN
CN2810

SW5V SW5V 12
-9V -VCC 11
+15V +15V 10
MOT_12V W2575 0 MOT_12V 9
STANDBY STANDBY 8
IDCDET DCDET 7
CD8V CD8V 6
PCONT PCONT 5
P_GND UP_GND 4
C2753 0.1 FL_GND 3
P_GND P_GND 2
1

CN2808

TO E POWER CIRCUIT (CN5103) ON SCHEMATIC DIAGRAM-6

+15V MIC MIC_GND HP_L HP_GND HP_R DGND SW5V PA_IN_L PA_IN_GND PA_IN_R MOT10V SW_LED VOL_LED J_VOLA J_VOI_B FL_RST FL_CS FL_DOUT FL_CLK H_BASS_LED KEY3 KEY2 KEY1 P-GND RMT VREF+ SYNC PCONT SYS6V

30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

CN2806

TO C PANEL CIRCUIT (CN6601) ON SCHEMATIC DIAGRAM-4

SA-AK340GCP MAIN CIRCUIT

SA-AK340GCP MAIN CIRCUIT

3/4

IC2801
C2CBYY000053
MICROPROCESSOR

IC2871
E-PROM IC
(NOT SUPPLIED)

Q2901
B1ACKD000006
CONTROL SWITCH

Q2902
B1AACF000064
VOLTAGE STABLISER CD3.3V

Q2906
B1ABCF000176
INTERFACE SWITCH

Q2907
B1ABCF000176
CD STATUS INTERFACE

Q2958,Q2960
B1ACKD000006
PLUNGER ON/OFF SWITCH

Q2957,Q2959
B1GBCFLL0037
PLUNGER ON/OFF SWITCH

Q2950
B1ACKD000006
DECK SUPPLY
CONTROL SWITCH

Q2951
B1ACKD000006
SUPPLY CONTROL SWITCH

Q2952
B1GBCFLL0037
DECK SUPPLY (PCONT)
CONTROL SWITCH

Q2936
B1ACKD000006
CD SUPPLY
CONTROL SWITCH

Q2937
B1GBCFJJ0051
CHANGER PLUNGER
ON/OFF SWITCH

Q2803
B1GBCFJJ0051
RESET (MICRO-P) SWITCH

TO B MAIN CIRCUIT (1B) ON SCHEMATIC DIAGRAM-2

TO B MAIN CIRCUIT (1A) ON SCHEMATIC DIAGRAM-2

TO A CD SERVO CIRCUIT (CN7002) ON SCHEMATIC DIAGRAM-1

TO G DECK MECHANISM CIRCUIT (CN971) ON SCHEMATIC DIAGRAM-7

TO CRS1 (CN1)

TO C PANEL CIRCUIT (CN6601) ON SCHEMATIC DIAGRAM-4

W2511 0
R2701 1K
C2701 0.01
C2702 16V100
R2705 3.3K
C2705 50V1
R2702 1K
R2703 220K
C2703 470P
R2315 56K
C2315 16V22
Q2142 B1ABCF000176 AGC CONTROL SWITCH
R2145 1K
R2146 1K
Q2311,Q2411 B1ABGC000005 MUTING SWITCH
C2311 1
R2311 470
R2314 0
C2312 1
C2313 47P
C2314 10P
R2312 10K
Q2311
R2313 100K
R2355 270K
C2342 1
R2455 270K
C2442 1
R2412 10K
Q2411
C2704 470P
W2514 0
220K
R2704
IC2804 C0AABB000125 IC OP AMP
R2401 15K
C2411 1
R2411 470
R2414 0
C2412 1
C2413 47P
C2414 10P
C2415 16V22
R2415 56K
C2706 50V1
R2706 3.3K
R2245 1K
Q2242 B1ABCF000176 AGC CONTROL SWITCH
R2246 1K
D2241 B0ACCK000005
R2247 100K
C2245 16V10
R2248 6.8K
Q2511 B1GDCFJJ0047 MUTING CONTROL
R2316 2.2K
R2335 1K
C2331 4700P
R2329 3.3K
C2321 1
R2321 0
R2331 0
W2510 0
C2333 1
R2334 0
R2317 10K
Q2317
R2318 100K
C2323 0.015
39K 180K
R2333 15K
C2711 16V100
C2712 0.01
R2356 180K
C2343 0.47
W2508 0
C2325 16V10
R2326 0
R2328 15K
R2430 0
R2428 15K
C2425 16V10
R2426 0
R2456 180K
C2443 0.47
R2433 15K
R2417 18K
R2418 100K
R2431 0
C2433 1
R2434 0
Q2417
R2435 1K
C2431 4700P
C2943 50V2.2
R2416 2.2K
Q2317,Q2417 B1ABGC000005 MUTING SWITCH
R2423 39K
C2423 0.015
W2512 0
R2429 3.3K
C2421 1
R2421 0
F_HOP 1
T-GND 2
MUTE-D-AMP 3
+15V 4
HIGH_L-IN 5
HIGH_R-IN 6
ASP_GND 7
LOW_L-IN 8
LOW_R-IN 9
A_GND 10
11
FAN 12
CN2809
TO E POWER CIRCUIT (CN5102) ON SCHEMATIC DIAGRAM-6
C2583 16V100
C2588 0.1
D2583 B0BC9R000008
R2273 4.7K
R2271 6.8K
R2510 220
C2585 220P
R2585 330K
C2584 220P
R2509 560
W2513 0
W2531 0
R2342 0
R2341 27
R2352 27
R2351 0
R2344 0
R2343 27
R2354 27
R2353 0
Q2341
R2347 1
R2346 3.3K
R2345 1.5K
C2344 0.47
R2357 100K
C2341 1000P
W2530 0
R2508 1K
R2511 2.2K
R2512 100K
C2511 50V2.2
C2444 0.47
R2457 100K
C2441 1000P
R2584 330K
R2586 1.2K
R2587 1.2K
R2446 3.3K
R2445 1.5K
Q2441
W2546 0
W2526 0
R2442 0
R2441 27
R2452 27
R2451 0
R2444 0
R2443 27
R2454 27
R2453 0
Q2341,Q2441 B1ABGC000005 HEADPHONE MUTING
R2447 1
LM_1
SW15V
ASP_CLK
ASP_DA
+15V
MUTE_A
-9V
A_GND
HP_L
HP_R
+15V
F_HOP

SCHEMATIC DIAGRAM - 3

B MAIN CIRCUIT

—— : +B SIGNAL ⇒ : FM/AM SIGNAL LINE ⇒ : TAPE RECORD SIGNAL LINE ⇒ : CD SIGNAL LINE

– – : -B SIGNAL ⇒ : MAIN SIGNAL LINE ⇒ : TAPE PLAYBACK SIGNAL LINE

1/4

SA-AK340GCP MAIN CIRCUIT

IC2803
C1BB00001121
AUDIO SOUND PROCESSOR

IC2804
C0AABB000
IC OP AMP

Q2142
B1ABCF000176
AGC CONTROL SWITCH

Q2311,Q2411
B1ABGC000005
MUTING SWITCH

Q2311

Q2411

Q2242
B1ABCF000176
AGC CONTROL SWITCH

Q2511
B1GDCFJJ0047
MUTING CONTROL

Q2341

Q2441

Q2341,Q2441
B1ABGC000005
HEADPHONE MUTING

Q2501
B1ABCF000176
LEVEL METER
CONTROL SWITCH

Q2978
B1GDCFJJ0047
REC:ON/OFF CONTROL SWITCH

Q2980
B1GDCFJJ0047
SUPPLY CONTROL SWITCH
(DECK MOTOR)

TO F DECK CIRCUIT (CN1001) ON SCHEMATIC DIAGRAM-7

CN2803

PB_L
PB_R
GND
REC_IN_L
REC_IN_R
+B
REC_H
MO+B
MO_GND
NC
DECK1_H
NC
MOTOR
NC

+15V
MIC
MOT_12V
P_GND
REC[59]
SW5V
A_GND
MTR[58]
DECK_H

LM_1
SW15V
ASP_CLK
ASP_DA
+15V
MUTE_A
-9V
A_GND
HP_L
HP_R

SCHEMATIC DIAGRAM - 2

: +B SIGNAL LINE
: FM/AM SIGNAL LINE
: FM SIGNAL LINE
: FM OSC SIGNAL LINE
: AM SIGNAL LINE
: AM OSC SIGNAL LINE

B MAIN(TUNER) CIRCUIT

H TUNER PACK CIRCUIT

FM EXT ANT
75 OHM
GND
AM LOOP ANT
AM EXT ANT
JK2601

Q1 B1CECC000003
Q2 B1AAAC000016
Q3,Q4 B1AAAD000015
Q2601 B1AABC000003 FM IF AMP
Q2606 B1GCCFJJ0016 TUNER 15V SUPPLY SWITCH

D2602 B0CDBB000015
D2601 B0BC5R000009
L2601 G2A411C00001
L2602 G2BPC0000016
Z2602 G2BAD0000003
X2602 H3F1065A0002
X2603 H0H720400007

IC2601 C1BB00000962
FM/AM IF AMP DET/AM OSC MIX/ FM MPX
OSC OUT, OSC, AFC, AM RF IN, AGC, AM OUT, DET OUT, PILOT IN, MPX IN, PILOT OUT, RCH, LCH
FM IF IN, AM MIX OUT, REG, AM IF IN, GND, SD, ST, FM DET, VCC, STRQ, FM/AM, MONO

IC2602 C1CB00001937
PLL FREQUENCY SYNTHESIZER
XOUT, VSS, AOUT, AIN, PD, VDD, FMIN, AMIN, MONO, IFIN
XIN, CE, DI, CL, DO, AM, LW, SDC, STRQ, FM

TO B MAIN CIRCUIT (2A) ON SCHEMATIC DIAGRAM-3
TGND, 15V, DO/ST, SD, +7.5V → 1A

TO B MAIN CIRCUIT (2B) ON SCHEMATIC DIAGRAM-3
RCH, CE, LCH, PLLDA, DO/ST, PLLCLK → 1B

SA-AK340GCP MAIN(TUNER) CIRCUIT

SCHEMATIC DIAGRAM - 1

OPTICAL PICKUP CIRCUIT

A CD SERVO CIRCUIT

—— : +B SIGNAL LINE ▶▶▶ : CD-DA SIGNAL LINE ▶▶▶ : CD SIGNAL LINE

LASER DIODE

CP701

CN7001

Q7601
B1ADCF000001
LASER POWER DRIVE

IC7001
MN6627954MA
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER D/A CONVERTER

IC7002
BA5948FPE2
4 CH DRIVE

X7201
H2B1695000005

CN7002

TO B MAIN CIRCUIT (CN2801) ON SCHEMATIC DIAGRAM-3

M7301 TRV MOTOR

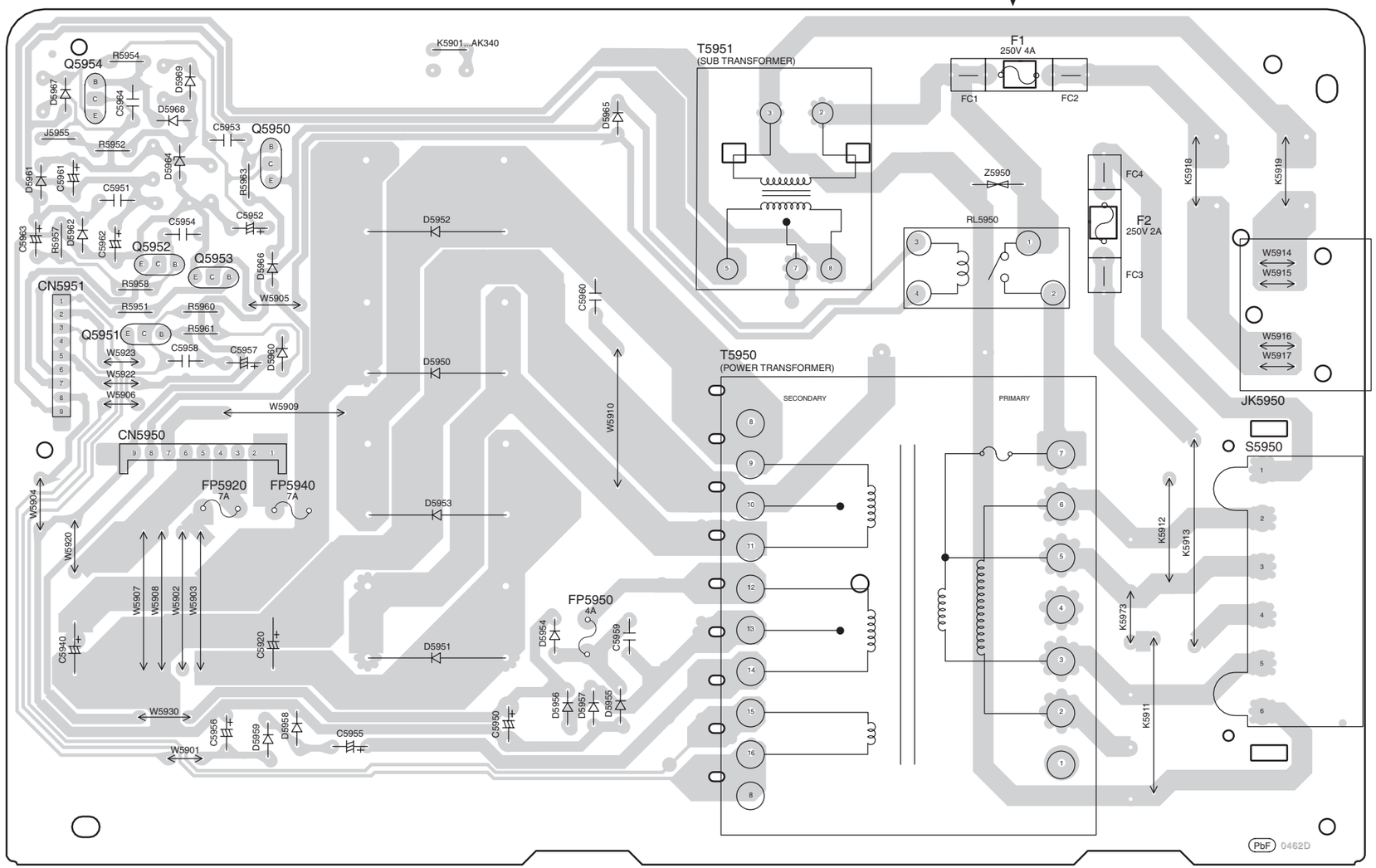
M7302 SRL MOTOR

S7201 REST SW

SA-AK340GCP CD SERVO CIRCUIT

D TRANSFORMER P.C.B (REPX0518D)

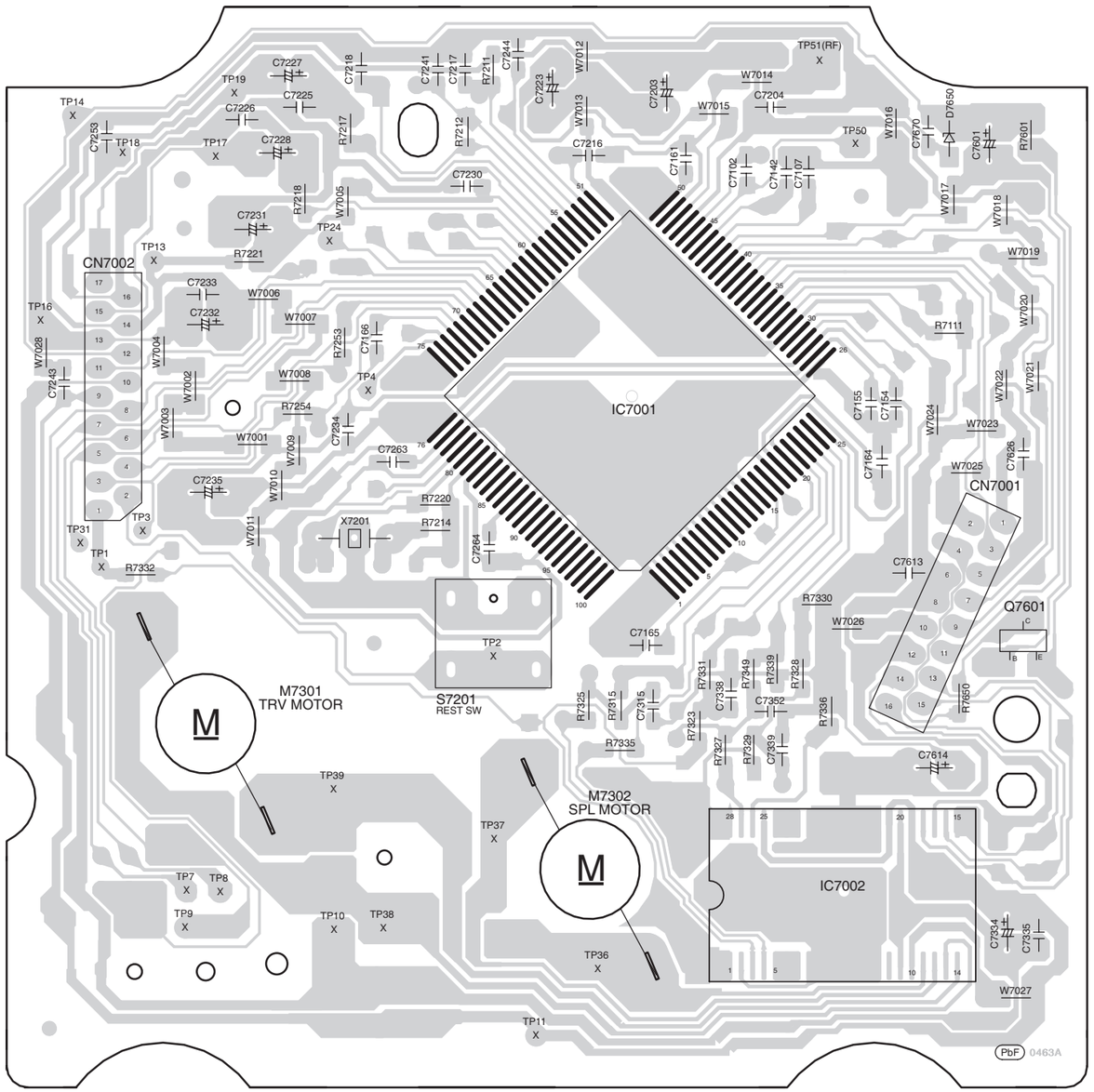
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B



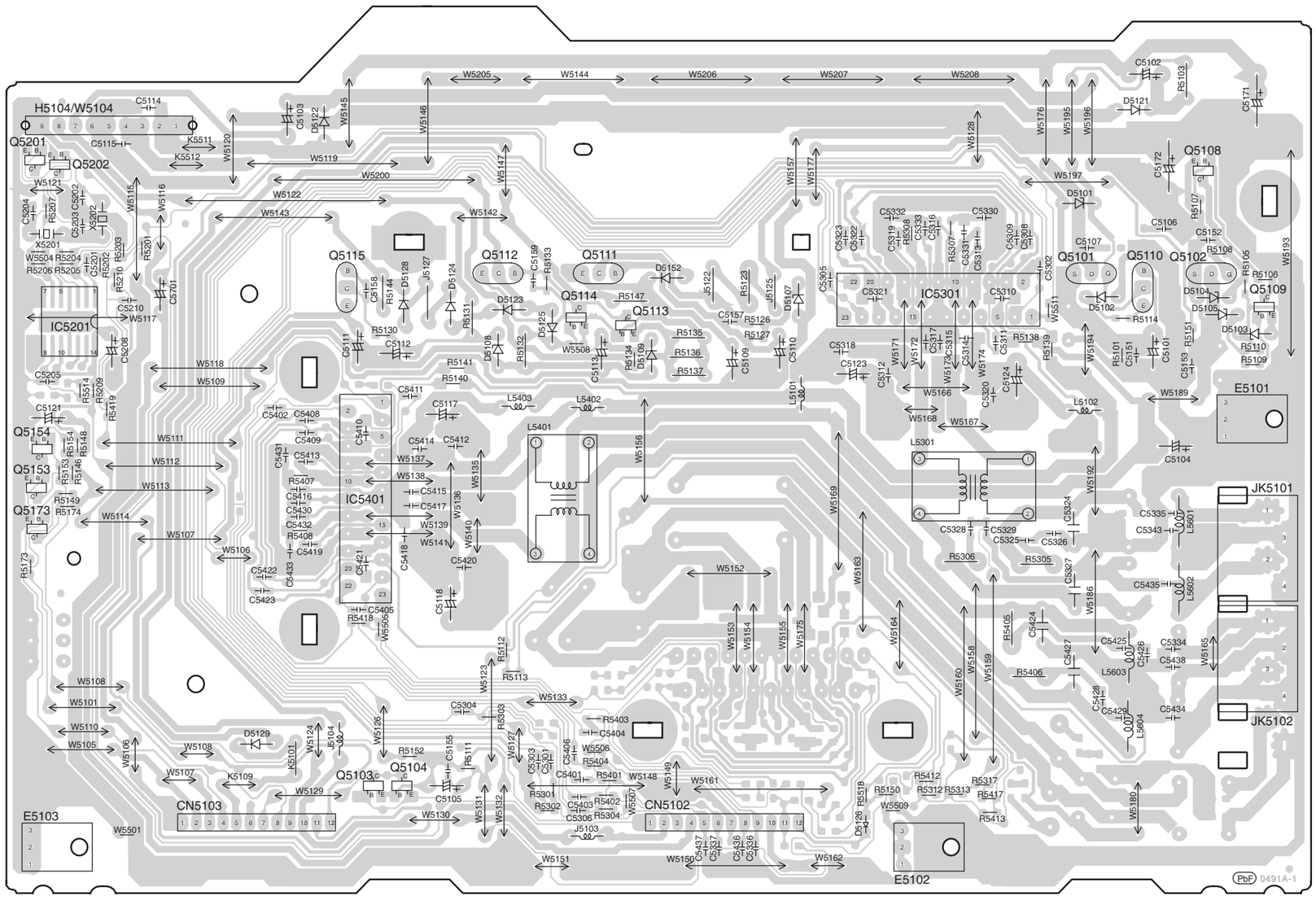
A B C D E F G H I J K L M N O P

1 2 3 4 5 6 7 8 9

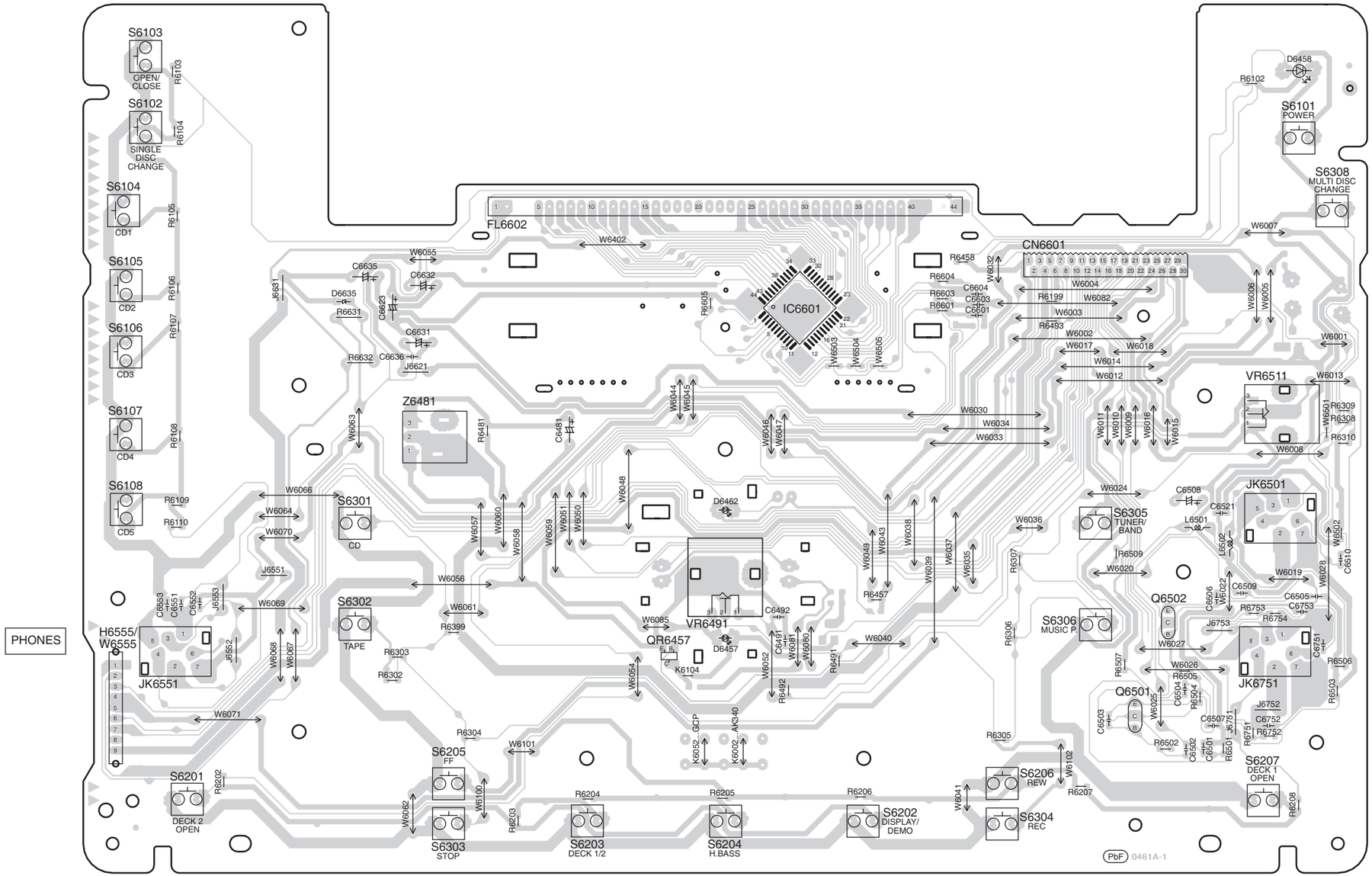
A CD SERVO P.C.B (REPX0494A)



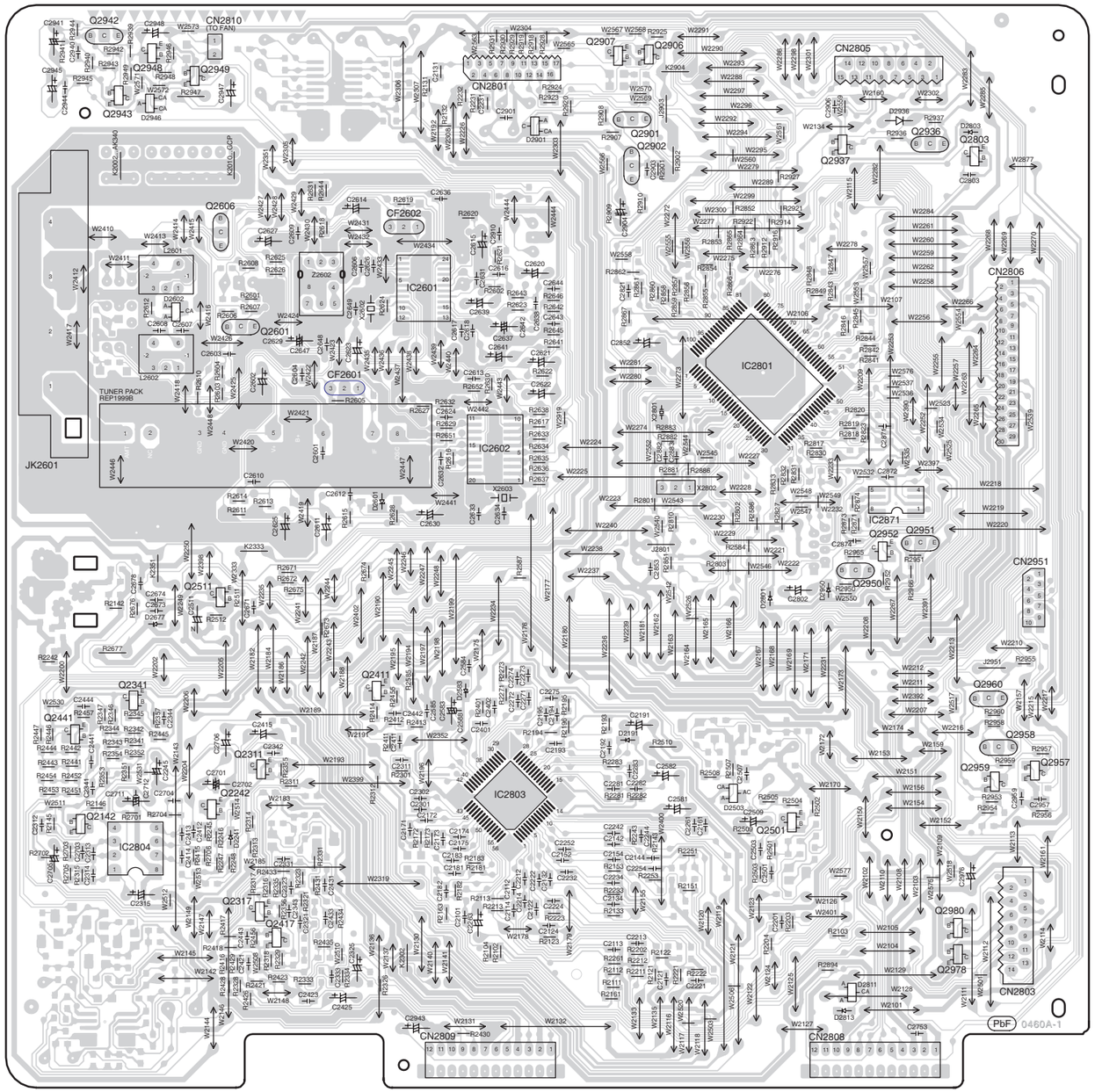
E POWER P.C.B (REPX0533D)



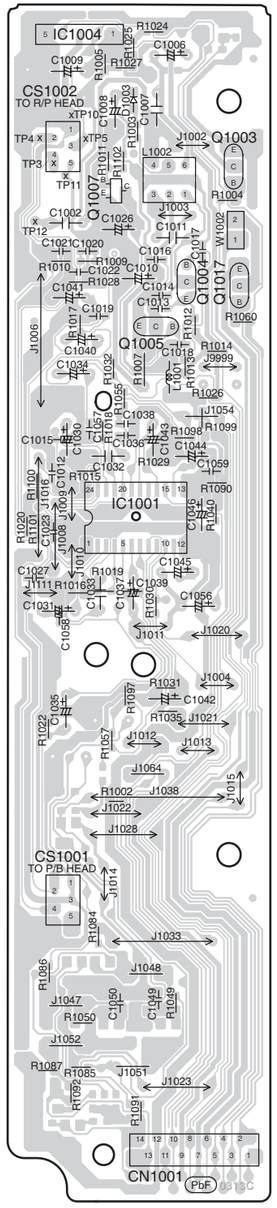
C PANEL P.C.B (REPX0517B)



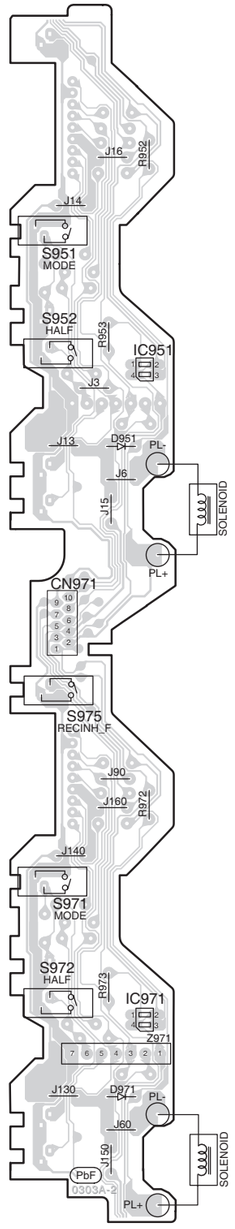
B MAIN P.C.B (REPX0516G)



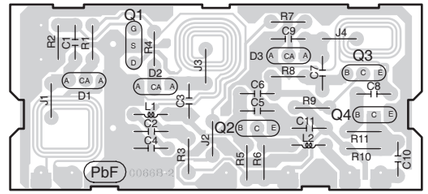
F DECK P.C.B (REPX0331E)



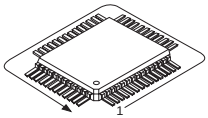
G DECK MECHANISM P.C.B. (REPX0321A)



H TUNER PACK P.C.B (REP1999B)



C1BB00001121 (100P)
C2CBYY000053 (100P)
C0HBB0000057 (44P)
MN6627954MA (100P)



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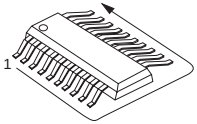
C0JBAB000011 (14P)
C1BB00000962 (24P)
C1CB00001937 (20P)



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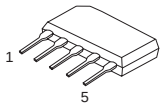

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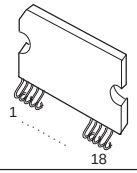

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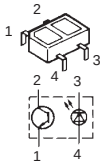

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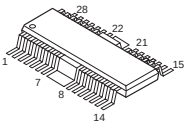

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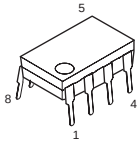

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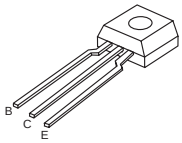

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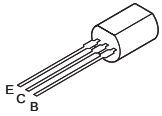

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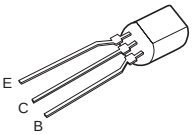

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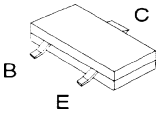

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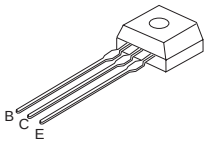

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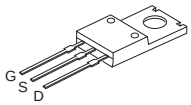

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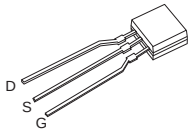

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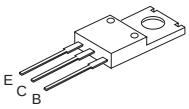

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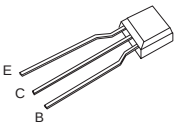

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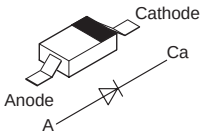

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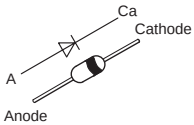

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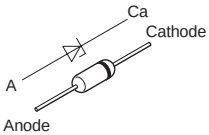

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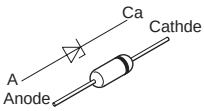

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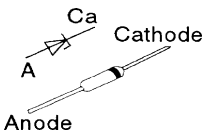

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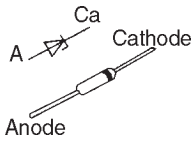

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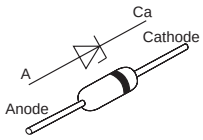

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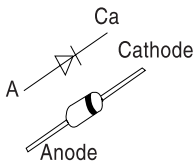

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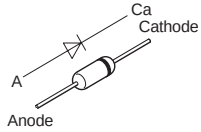

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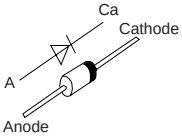

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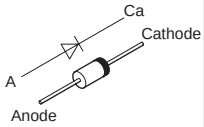

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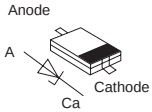

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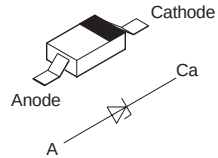

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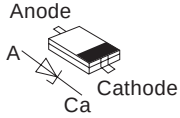

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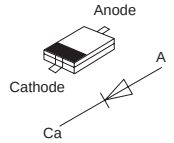

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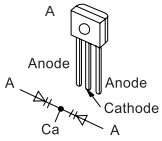

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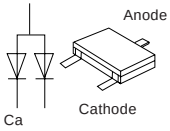

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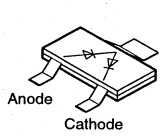

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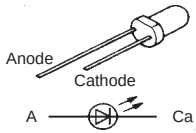

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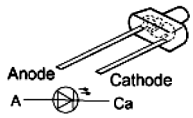


NOTE on CDs

- This unit can access up to 99 tracks.
- Choose disc with this mark.

COMPACT disc DIGITAL AUDIO

- This unit can play MP3 or WMA files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped disc.
- Do not use disc with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

Using DualDiscs

The "CD" sides of DualDiscs do not meet the CD-DA standard so it may not be possible to play them on this unit.

Not doing the following will cause damage to the unit.

- Press [⏻/I, POWER] to turn off the unit and remove the power plug only after all the displays have disappeared.

- Always press [⏏, OPEN/CLOSE] to insert or remove a disc.
- Do not push or pull out the tray by hand as this will cause an accident.

- Place the disc correctly label-up as shown in the diagram.
- Insert one disc into the tray.

NOTE on MP3 or WMA

- Files are treated as tracks and folders are treated as albums.
- This unit can access up to 999 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with 3-digits numbers in the order you want to play them.

MP3

When "NOT MP3/ERROR1" appears on the display, an unsupported MP3 format is being played. The unit will skip that track and play the next one.

WMA

- Noise may occur when playing WMA files.
- This unit cannot play WMA files that are copy protected.

Limitations on MP3 or WMA play

- If you have recorded MP3 or WMA on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3 or WMA may not be played due to the condition of the disc or recording.
- Due to differences and variations of WMA tags, some files may not play or display the tags' information properly.
- Recordings will not necessarily be played in the order you recorded them.

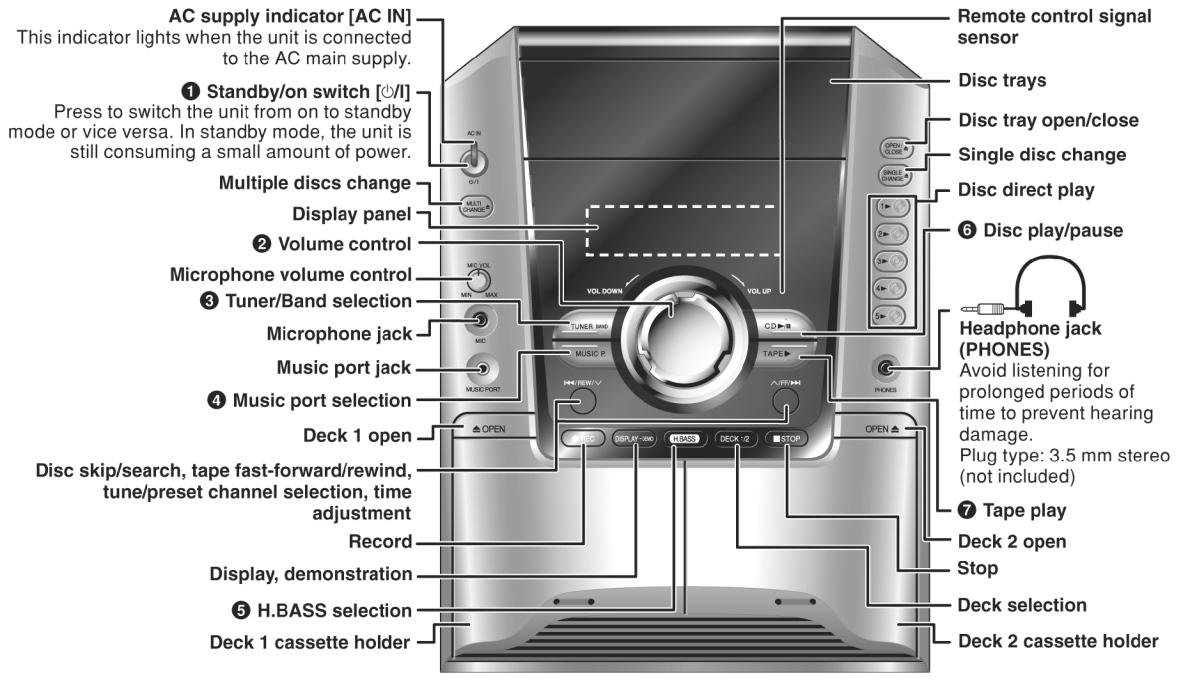
MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Designed for Windows Media™

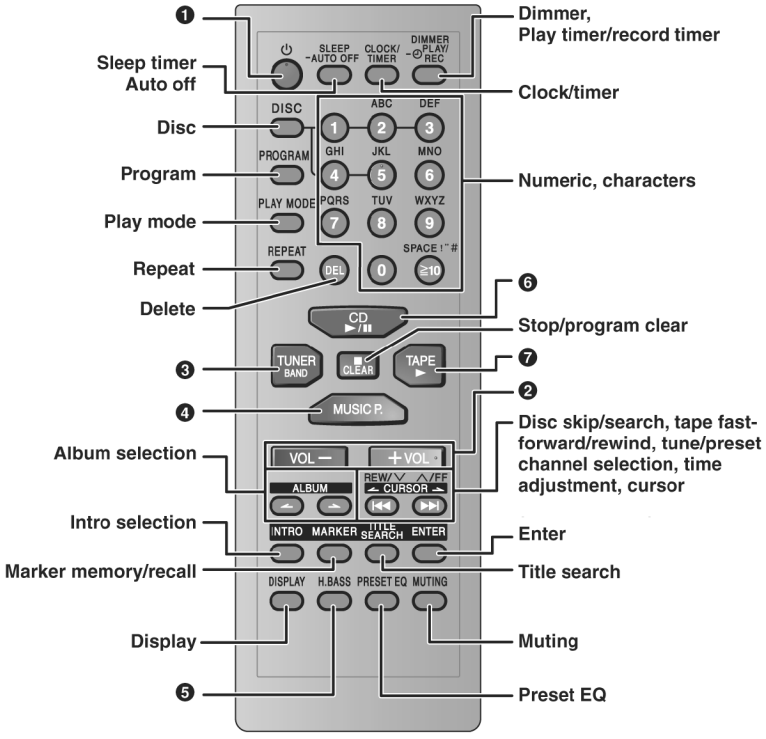
Main unit


AC supply indicator [AC IN]
This indicator lights when the unit is connected to the AC main supply.
❶ Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
Multiple discs change
Display panel
❷ Volume control
Microphone volume control
❸ Tuner/Band selection
Microphone jack
Music port jack
❹ Music port selection
Deck 1 open
Disc skip/search, tape fast-forward/rewind, tune/preset channel selection, time adjustment
Record
Display, demonstration
❺ H.BASS selection
Deck 1 cassette holder
Remote control signal sensor
Disc trays
Disc tray open/close
Single disc change
Disc direct play
❻ Disc play/pause
Headphone jack (PHONES)
Avoid listening for prolonged periods of time to prevent hearing damage.
Plug type: 3.5 mm stereo (not included)
❼ Tape play
Deck 2 open
Stop
Deck selection
Deck 2 cassette holder

To select the desired display during play mode.
Each time you press the button: Normal → Reflection → (off)

Remote control

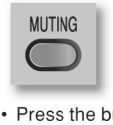
Buttons such as ❶ function the same as the controls on the main unit.



This auto off function allows you to turn off the unit in **disc or tape** mode only after left unused for 10 minutes.

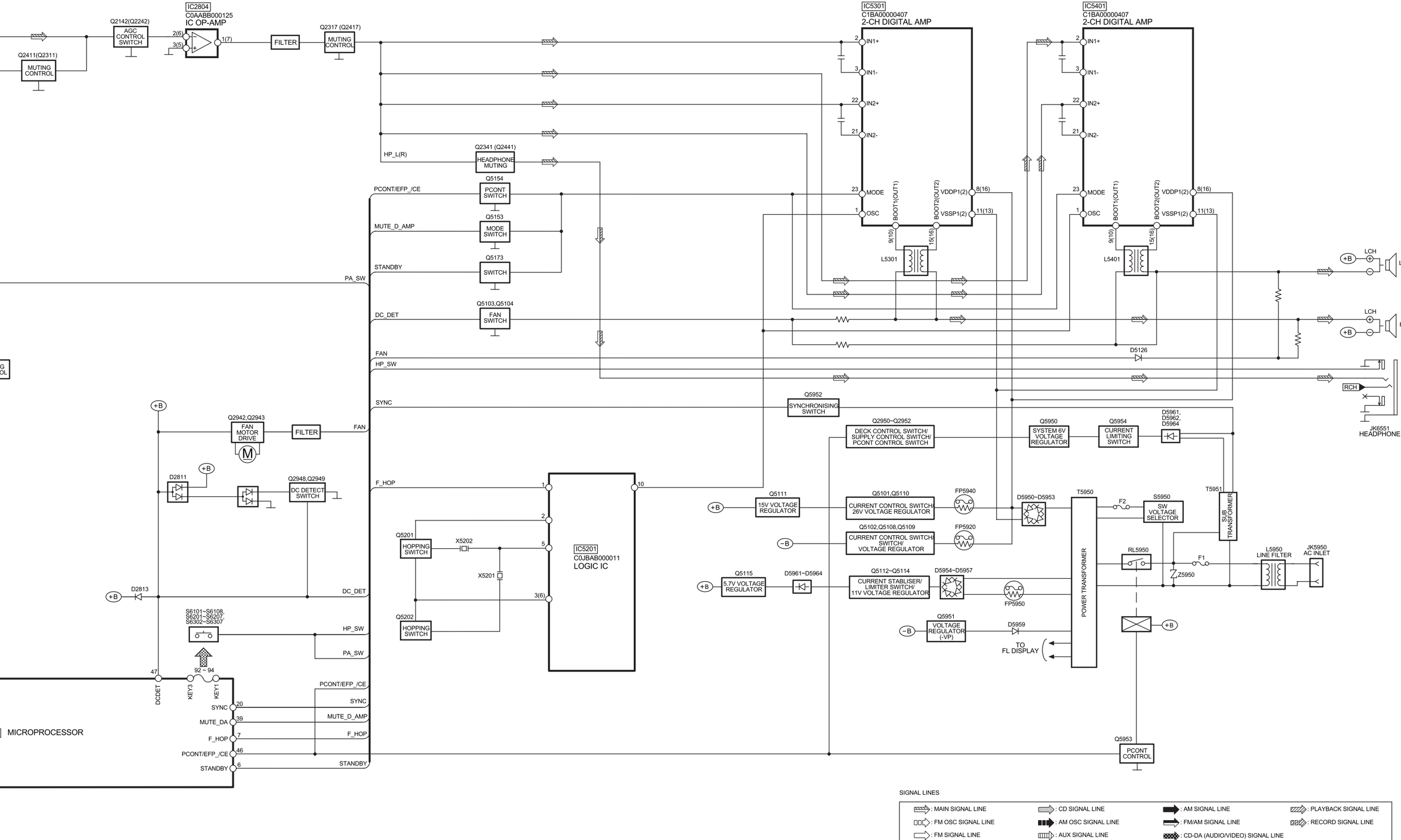
- Press and hold [–AUTO OFF] to activate the function.
- Press and hold [–AUTO OFF] again to cancel.
- The setting is maintained even if the unit is turned off.

To dim the display panel.



To mute the sound.

- Press the button to activate.
- Press again to cancel.


IC2804
C0AABB000125
IC OP-AMP
Q2142(Q2242)
AGC CONTROL SWITCH
Q2411(Q2311)
MUTING CONTROL
FILTER
Q2317 (Q2417)
MUTING CONTROL
IC5301
C1BA00000407
2-CH DIGITAL AMP
IC5401
C1BA00000407
2-CH DIGITAL AMP
IN1+
IN1-
IN2+
IN2-
MODE
OSC
BOOT1(OUT1)
BOOT2(OUT2)
VDDP1(2)
VSSP1(2)
L5301
L5401
HP_L(R)
Q2341 (Q2441)
HEADPHONE MUTING
PCONT/EFP_/CE
Q5154
PCONT SWITCH
MUTE_D_AMP
Q5153
MODE SWITCH
STANDBY
Q5173
SWITCH
PA_SW
DC_DET
Q5103,Q5104
FAN SWITCH
FAN
HP_SW
SYNC
Q5952
SYNCHRONISING SWITCH
LCH
LEFT CH (6 W)
RIGHT CH (6 W)
JK5101 (JK5102)
D5126
RCH
JK6551
HEADPHONE
Q2942,Q2943
FAN MOTOR DRIVE
FILTER
D2811
Q2948,Q2949
DC DETECT SWITCH
D2813
S6101~S6108, S6201~S6207, S6302~S6307
F_HOP
IC5201
C0JBAB000011
LOGIC IC
Q5201
HOPPING SWITCH
X5202
X5201
Q5202
HOPPING SWITCH
Q2950~Q2952
DECK CONTROL SWITCH/ SUPPLY CONTROL SWITCH/ PCONT CONTROL SWITCH
Q5950
SYSTEM 6V VOLTAGE REGULATOR
Q5954
CURRENT LIMITING SWITCH
D5961, D5962, D5964
Q5111
15V VOLTAGE REGULATOR
Q5101,Q5110
CURRENT CONTROL SWITCH/ 26V VOLTAGE REGULATOR
FP5940
D5950~D5953
T5950
F2
S5950
SW VOLTAGE SELECTOR
T5951
SUB TRANSFORMER
Q5102,Q5108,Q5109
CURRENT CONTROL SWITCH/ SWITCH/ VOLTAGE REGULATOR
FP5920
RL5950
F1
L5950
LINE FILTER
JK5950
AC INLET
Z5950
Q5115
5.7V VOLTAGE REGULATOR
D5961~D5964
Q5112~Q5114
CURRENT STABLISER/ LIMITER SWITCH/ 11V VOLTAGE REGULATOR
D5954~D5957
FP5950
POWER TRANSFORMER
Q5951
VOLTAGE REGULATOR (-VP)
D5959
TO FL DISPLAY
Q5953
PCONT CONTROL
MICROPROCESSOR
DCDET
KEY3
KEY1
SYNC
MUTE_DA
F_HOP
PCONT/EFP_/CE
STANDBY
SIGNAL LINES
: MAIN SIGNAL LINE
: CD SIGNAL LINE
: AM SIGNAL LINE
: PLAYBACK SIGNAL LINE
: FM OSC SIGNAL LINE
: AM OSC SIGNAL LINE
: FM/AM SIGNAL LINE
: RECORD SIGNAL LINE
: FM SIGNAL LINE
: AUX SIGNAL LINE
: CD-DA (AUDIO/VIDEO) SIGNAL LINE
( ) Indicates the Pin No. of Right Channel.
NOTE : Signal Lines are applicable to the Left Channel only.

FROM POWER TRANSFORMER

IC1001
AN7348S-E1
P.B EQ/REC AMP/
ALC/TPS AMP

(DECK 1) P.B. HEAD
LCH
(DECK 2) R/P HEAD
LCH
24(23)
1(2)
22(3)
21(4)
17(8)
20(5)
18(7)
6
19
15
12
LOGIC L/H
ALC
NOR/CrO & HI/LO LOGIC
LOGIC REC/PB
RIPPLE REJECTION
10
16
14
13
9
11

VR6511
MIC VOL
Q6501,Q6502
MIC AMP
JK6751
MIC

IC2803
C1BB00001121
AUDIO SOUND PROCESSOR
3(4) IN-L2(R2)
55 OP-OUT
56 OP-IN
1(2) IN-L1(R1)
53(17) REC-L(R)
54(16) GV-OUT-L(R)
9(10) IN-L5(R5)
5(6) IN-L3(R3)
7(8) IN_L4(R4)
L-OUT(R-OUT) 42(37)
40 DATA
39 CLK

JK2801
AUX
CD SIGNAL
RCH
Q6501,Q6502
JK6751
MUSIC PORT INPUT

Q2978
CONTROL SWITCH
(DECK 2) ERASE HEAD
L1002
+B
BIAS OSC CONTROL
Q1004, Q1005, Q1007
Q1003
SWITCHING (BEAT PROOF/ RECH)
4
2
3
5
IC1004
C1AA00000612
R/P SELECT

Q2142(Q2242)
AGC CONTROL SWITCH
Q2411(Q2311)
MUTING CONTROL
IC2804
C0AABB000125
IC OP-AMP
2(6)
3(5)
1(7)
FILTER
Q2317 (
MUTI
CONT

Q2511
−B
MUTING CONTROL

Q2501
METER CONTROL SWITCH
D2503

Q1017
MOTOR SWITCH
Q2980
DECK MOTOR SWITCH
+B
M
M1002

+B
Q2942,Q2943
FAN MOTOR DRIVE
FILTER
M
D2811
+B
Q2948,Q2949
DC DETECT SWITCH
+B
D2813
S6101~S6108,
S6201~S6207,
S6302~S6307
92 ~ 94

IC2871
E-EPROM
(NOT SUPPLIED)
6
5
4
3

IC951
CNB13030R2AU
PHOTO INTERRUPTER
IC971
CNB13030R2AU
PHOTO INTERRUPTER
HALF
MODE
RECINH_F
S972
S971
S975
Z971
INTERFACE
MODE
HALF
S951
S952
Q2959,Q2960
PLUNGER SUPPLY SWITCH/ PLUNGER:ON/OFF SWITCH
D951
Q2957,Q2958
PLUNGER SUPPLY SWITCH/ PLUNGER:ON/OFF SWITCH
D971

53 MODE_1
52 HALF_1
97 PHOT0_1
91 DECK2
95 PHOTO_2
58 MTR
59 REC
60 DECK1_H
56 PLG1
57 PLG2
43 EE_DAT
42 EE_CLK
41 EE_CS
1 LM_1
26 ASP_DAT
27 ASP_CLK
40 MUTE_A
47 DCDET
KEY3
KEY1

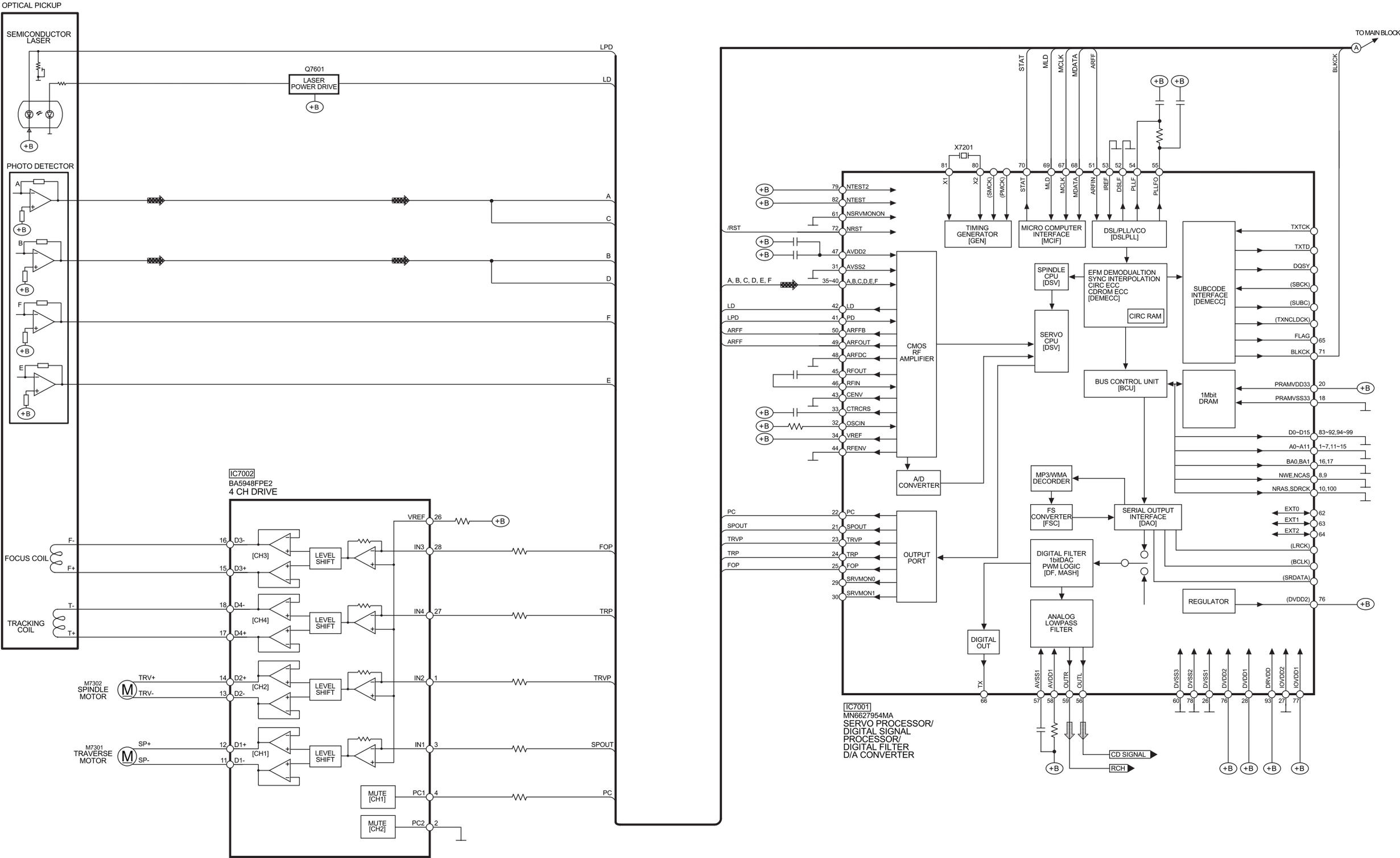
C2CBYY000053 IC2801 MICROPROCESSOR

C2CBYY000053 IC2801 MICROPROCESSOR

SYNC 20
MUTE_DA 39
F_HOP 7
PCONT/EFP_/CE 46
STANDBY 6
PCONT/
MUTE

66 VOL_LED
D6457, D6462
QR6457
LED DRIVE
B
18 RMT
Z6481
REMOTE SENSOR

FMANT
Z2620
Q1 (RFAMP)
Q2
MIXER
Q3
OSC
Q4
BUFFER
CF2601
Q2601
FM IF AMP
CF2602
AMANT
L2601
D2602
L2602
+B
+B (FM)
RCH
ALC
AM OSC
AM MIX
AM RMAMP
BUFFER
AGC
DECODER
PHASE DET
PILOT CANCEL
STEREO SWITCH
LEVEL DET
S-CURVE
FM IF
FM DET
AM/FM IF BUFFER
AM IF
AM DET
COMP
VCO
TUNING DRIVE
FF
PILOT DET
REG
SD
ST
X2602
Z2602
AM IFT
IC2601
C1BB00000962
FM/AM IF AMP, DET/AM OSC, MIX/FM MPX
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X2603
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
ST/DO
PLLDA
PLLCLK
POWER ON RESET
Q2606
TUNER 15V SUPPLY SWITCH
IC2602
C1CB00001937
PLL FREQUENCY SYNTHESIZER
TO CD DRIVE BLOCK
FL6602
FL DISPLAY
GR1
GR12
31~42
SG1
SG16
14~22, 23~29
FROM POWER TRANSFORMER
5~16,24
25~40
FL10
FL24
FL25
FL40
IC6601
C0HBB0000057
FL DRIVER
STB
DIN
CLK
/RST
STAT
ST/DO
PLLCLK
BLKCK
SD
Q2907
CD STATUS INTERFACE
Q2906
BLKCK INTERFACE SWITCH
MLD
MDATA
MCLK
CE
TO CD LOADING CIRCUIT
HOME_SW
SPEED
CLOSE_SW
OPEN_SW
CHG_CW
CHG_CCW
ST_SW
PLAY_SW
BOTTOM_SW
UP_SENSOR
BLKCK
PLLCK
STATUS
CD_RST
FL_CS
FL_DOUT
FL_CLK
C2CBYY000053
IC2801
MICROPROCESSOR
RESTSW
S7201 RESET SWITCH
V_JOG_A
V_JOG_B
VR6491 JOG VOL
XC_IN
XC_OUT
X2801
Y_OUT
Y_IN
X2802
VOL_LED
D6457, D6462
QR6457
LED DRIVE
(DECK 1) P.B. HEAD
LCH
(DECK 2) R/P HEAD
(DECK 2) ERASE HEAD
IC1004
C1AA00000612
R/P SELECT
Q1003
SWITCHING (BEAT PROOF/ RECH)
Q1017
MOTOR SWITCH
M1002
S951
S952
MODE
HALF
IC951
CNB13030R2AU
PHOTO INTERRUPTER
S972
S971
S975
RECINH_F
Z971 INTERFACE
MODE_1
HALF_1
PHOTO_1
DECK2


OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
Q7601
LASER POWER DRIVE
LPD
LD
A
C
B
D
F
E
IC7002
BA5948FPE2
4 CH DRIVE
FOCUS COIL
TRACKING COIL
M7302 SPINDLE MOTOR
M7301 TRAVERSE MOTOR
[CH1]
[CH2]
[CH3]
[CH4]
LEVEL SHIFT
MUTE [CH1]
MUTE [CH2]
FOP
TRP
TRVP
SPOUT
PC
TO MAIN BLOCK
X7201
TIMING GENERATOR [GEN]
MICRO COMPUTER INTERFACE [MCIF]
DSL/PLL/VCO [DSLPLL]
CMOS RF AMPLIFIER
A/D CONVERTER
OUTPUT PORT
SPINDLE CPU [DSV]
SERVO CPU [DSV]
EFM DEMODUALTION SYNC INTERPOLATION CIRC ECC CDROM ECC [DEMECC]
CIRC RAM
SUBCODE INTERFACE [DEMECC]
BUS CONTROL UNIT [BCU]
1Mbit DRAM
MP3/WMA DECORDER
FS CONVERTER [FSC]
SERIAL OUTPUT INTERFACE [DAO]
DIGITAL FILTER 1bitDAC PWM LOGIC [DF, MASH]
ANALOG LOWPASS FILTER
DIGITAL OUT
REGULATOR
CD SIGNAL
RCH
IC7001
MN6627954MA
SERVO PROCESSOR/ DIGITAL SIGNAL PROCESSOR/ DIGITAL FILTER D/A CONVERTER